CONSTRUCTION NEWS

Personals, Engineering Societies, Engineering Schools, Readers' Wants, Industrial Notes, Publications.

Supplement to ENGINEERING NEWS. New York, December 1, 1904.

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PERSONAL.

Mr. M. T. Hochstrasser has been appointed Professor of Mechanical Engineering at the University of Florida, Lake City, Fla.

Mr. A. Warren Clark has been appointed Superintendent of Streets and Water of St. Albans, Vt., succeeding Mr. Harry F. Lincoln, resigned.

Mr. Arthur Johnson, formerly of Kansas City, Kan., has located in Laramie, Wyo., where he will practice as mining engineer and mineralogist.

Mr. Herman Hall has been appointed Assistant Division Engineer of the third district of the St. Louis & San Francisco, with headquarters at Cape Girardeau, Mo.

Broderick & Wind Engineering & Construction Co., engaged in a general contracting business, with general offices in St. Louis, Mo., have opened a branch office at 29 West 42d St., New York City.

Major B. B. Gordon has resigned as Assistant Engineer of the Missouri Pacific Ry. Co., with headquarters at McGehee, Ark., and will engage in the real estate business. He is succeeded by Mr. C. N. Jaquette.

Mr. W. H. V. Rosing, Assistant Superintendent of Machinery of the Ilinois Central, has resigned that position, and has been appointed Mechanical Engineer of the Missouri Pacific system, with headquarters at St. Louis, Mo.

Dr. J. MacIntosh Bell, an instructor in the Mining Department at Harvard University, has been appointed official Geologist of the Government of New Zealand, to succeed Sir James Hector. Dr. Bell is a native of Quebec.

Messrs. Cecil C. Morgan, C. C. Beddoes, Ernest Gayford and P. P. Callow have organized a company under the firm name of Morgan, Beddoes & Co., and with headquarters at Charlotte, N. C., will operate as mining engineers.

Mr. O. L. Remington, of Wm. McLean & Co., Electrical Engineers and Contractors, of Melbourne, Australia, who has been in this country for several weeks in behalf of his firm, will return to New York City about Dec. 21 for a few days before sailing for Australia.

Mr. Irvine Watson, Assoc. M. Am. Soc. C. E., has resigned his position in the U. S. Engineer's office in Wheeling, W. Va., to accept the position of First Assistant City Engineer of Dayton, O. Mr. Watson's work in Dayton will be almost entirely in connection with track elevation.

Mr. A. M. Shaw, of Dixon, Ill., has resigned as Engineer for the Inlet Swamp Drainage District, to take charge of the A. M. Shaw Construction Co., which has several contracts for ditch work in the above-mentioned district. Mr. B. L. Henning, of Steward, Ill., succeeds Mr. Shaw.

Mr. W. H. Glass has resigned as Superintendent of the Bean Valley Irrigation Co., with headquarters at Redlands, Cal., and will remove to Los Angeles, Cal., where he will engage in contracting. Mr. William Medland, General Superintendent of the Domestic Water Co., of Redlands, succeeds Mr. Glass.

Dr. Louis Duncan, who recently resigned from the Chair of Electrical Engineering at Massachusetts Institute of Technology, in order to devote his whole time to his practice as consulting engineer, has been retained by the Allis-Chalmers Co. as an expert in electrical patent work in connection with its electrical department. Dr. Duncan will continue to make his headquarters at 56 Pine St., New York City.

Mr. Philip J. Markmann, Chief Building Engineer of the Louisiana Purchase Exhibition at St. Louis, announces that his work at the Exhibition is completed, and he is now associated with Mr. Warren A. Tyrrell in the general practice of structural engineering, under the firm name of the Markmann-Tyrrell Engineering Co., 620 Chestnut St., St. Louis, Mo.

Mr. Chester W. Smith, Assistant to Division Engineer Thomas F. Richardson, of the Metropolitan Water and Sewerage Board, in charge of the construction of the Wachusett Reservoir, at Clinton, Mass., is stated to have secured a position in the U. S. Reclamation Service, and will leave Clinton about Dec. 15 to go to Arizona, where he will have charge of the construction of a large dam.

OBITUARY.

William G. Purdy, Professor of Mathematics and Mechanical Drawing at Knoxville College, died in Knoxville, Nov. 25.

Charles H. Shipman, a well-known civil engineer, who had superintended many railroad surveys in various parts of the country, died Nov. 26 in the Lincoln Hospital, New York City. He was 61 years old.

George Edgerton Burpee, one time Chief Engineer of the European & North American R. R., died in Boston, Mass., Nov. 25. Mr. Burpee was born in Sheffield, N. B., in 1834. He was a civil engineer by profession, and figured in the construction of a number of railroads, being Chief Engineer in the building of a line from Bangor to St. John. He was a resident of Bangor, Me.

Lorenzo M. Johnson, M. Am. Soc. C. E., died suddenly at St. Mary's, Pa., Nov. 28. Mr. Johnson was formerly General Manager of the Mexican International R. R. and other large interests of C. P. Huntington in Mexico, and at the time of his death he was President of the Pittsburg, Shawmut & Northern R. R., and allied interests. At one time he was Vice-President and General Manager of the Cairo & St. Louis R. R. He was a graduate of the Sheffield Scientific School of Yale University.

Henry Kuhn Nichols, formerly Chief Engineer of the Philadelphia & Reading Ry., died at his home in Philadelphia, Nov. 22, after an illness of several weeks. Mr. Nichols was born in Pottsville, Pa., in 1830, and began his engineering career as a rodman on the Mill Creek extension of the Reading when he was 17 years old. He continued in the service of that company until 1850, when he was employed in the location of the Orange & Alexandria R. R. in Virginia, and also on the experimental surveys of the Lebanon Valley. During 1851 he was engaged as Assistant Engineer on the enlargement of the Union Canal, and subsequently in other engineering capacities, until 1857, when he was appointed by the United States Government principal Assistant Engineer on the construction of the Ft. Kearney and Honey Lake wagon road, and the preliminary survey for a Pacific railroad to California. Returning East in 1858, he became acting Chief Engineer of lateral railroads in Schuylkill County, and, becoming Chief Engineer the following year, continued in that capacity until 1861. When these roads were leased to the Reading he was made Resident Engineer, retaining that position until 1883, when he was made Chief Roadmaster of the Reading system. In 1885 he was appointed Chief Engineer, and in 1900 he was made Consulting Engineer, in which position he remained until 1903, when he retired.

ENGINEERING SOCIETIES.

COMING MEETINGS.

TECHNICAL SOCIETY OF THE PACIFIC COAST.
Dec. 1 to 3, 1904. Annual meeting at San Francisco, Cal. Secy., O. von Geldern, San Francisco, Cal.

ENGINE BUILDERS' ASSOCIATION OF THE UNITED STATES.
Dec. 2, 3, 1904. Annual meeting at New York, N. Y. Secy., D. Fleming, Harrisburg, Pa.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
Dec. 6 to 9, 1904. Annual meeting at New York City, Secy., F. R. Hutton, 12 West 31st St., New York.

AMERICAN INSTITUTE OF ARCHITECTS.
Dec. 15 to 17, 1904. Annual meeting at Washington, D. C. Secy., Glenn Brown, Washington, D. C.

AMERICAN ECONOMIC ASSOCIATION.
Dec. 28 to 30, 1904. Annual meeting at Chicago, Ill. Secy., F. A. Fetter, Ithaca, N. Y.

AMERICAN FOREST CONGRESS.
Jan. 2 to 6, 1905. At Washington, D. C., under the auspices of the American Forestry Association.

MICHIGAN ENGINEERING SOCIETY.
Jan. 11 to 13, 1905. Annual meeting at Lansing, Mich. Secy., F. Hodgman, Climax, Mich.

CANADIAN SOCIETY OF CIVIL ENGINEERS.—The subject for the meeting of the Mechanical Section on Nov. 24 was "The Measurement of Water by a Venturi Meter Viewed from a New Standpoint," by Mr. R. Steckel.

ENGINEERS' CLUB OF PHILADELPHIA.—At the meeting of Nov. 19 the following nominations were presented for officers for the coming year: For President, Mr. Silas G. Comfort; for Vice-President, Mr. Geo. N. Leiper; for Directors, Messrs. John T. Loomis, W. P. Dallett, and H. H. Quimby; for Secretary, Mr. Walter Loring Webb; for Treasurer, Mr. Geo. T. Gwilliam. As the result of a special committee report, the club voted to cooperate with a number of other interested organizations in working for the acquisition of a comprehensive park system for Philadelphia.

Mr. E. L. Walker read a paper on "Modern Electric Drives," which was discussed by Messrs. H. T. Moore, Barth, Halstead, W. L. Webb and H. Hess.

ENGINEERS' CLUB OF CENTRAL PENNSYLVANIA.—The November meeting of the club was held on Nov. 22, being postponed from the regular date (second Tuesday of month), which fell on Election Day. A paper on "Various Types of Steam Turbines" was read by Mr. Thomas Hall. The meeting was well attended. The next meeting will be held on Dec. 13, when it is expected that a paper will be read by Mr. B. T. Allen on "Comparative Tests of Corliss and Other Steam Engines." The club rooms are located at Second and Walnut Sts., Harrisburg, Pa. The secretary, Mr. Wm. G. Miller, reports that the membership is now near 300 and the club is in a flourishing condition. The receipt of trade publications and the like for file in the club rooms will be appreciated.

MICHIGAN ENGINEERING SOCIETY.—The program for the coming annual meeting of this society, date and place of which are announced above, is not yet completed, but will be announced in this column when received. Committee reports will probably be presented in the following subjects: Sewerage and Water Supply, Forestry, Roads and Paving, Land Surveying, Electric Railways, Topographical Survey of the State, Engineering Features of Municipal Work. The letter ballot for officers for the coming year resulted as follows: President, Mr. Dorr Skeels, of Grand Rapids; Vice-President, Prof. H. K. Vedder, of Michigan Agricultural College; Secretary, Mr. F. Hodgman, of Climax; Directors, Messrs. A. C. Lane of Lansing, J. B. Davis of Ann Arbor, and Geo. S. Pierson of Kalamazoo.

CIVIL SERVICE EXAMINATIONS FOR TECHNICAL POSITIONS.

Announcement is made in these columns from time to time of civil service examinations for technical positions. In all cases where the examinations are held by the United States Civil Service Commission, further information may be obtained by addressing the Secretary of that Board at Washington, D. C.

TEACHER.—U. S. Civil Service Commission will hold an examination Dec. 28-29 to fill existing vacancies, and vacancies as they may occur, in the position of teacher in the Philippine Service. Salary ranges from $1,000 to $1,200, based upon experience and relative standing in examination.

CHEMICAL CLERK.—U. S. Civil Service Commission will hold an examination Jan. 4-5, to secure eligibles to fill a vacancy in the position of chemical clerk, Bureau of Chemistry, Department of Agriculture, at $70 per month, and similar vacancies as they may occur in that department.

CONSTRUCTING ENGINEER.—U. S. Civil Service Commission will hold an examination Jan. 4-5, at various places throughout the country to secure eligibles to fill a vacancy in the position of constructing engineer in the U. S. Powder Depot, Dover, N. J., at $200 per month, and other similar vacancies as they may occur in the Ordnance Department at Large. The position to be filled requires an appointee who has had good experience in the erection of buildings, who is familiar with the details of architectural construction and with the materials used in the erection and fitting up of buildings, who is competent to carry out such work in a supervisory capacity, and who possesses sufficient knowledge of civil engineering to construct roads, sewers, etc., make small surveys, do leveling work, compute quantities, etc.

LEVELER, CHAINMAN OR RODMAN.—Municipal Civil Service Commission of the City of New York, Henry Berlinger, Secy., 61 Elm St., New York, will hold an examination Dec. 22 to secure eligibles to fill two vacancies in the position of leveler in the Aqueduct Commission. Application to take the examination will be received by the Examiners until 4 p. m., Dec. 13. The salary is from $1,200 to $1,500 per year and appointees will be expected to serve outside the city at such places and such times as their services may be required. The commission will also hold an examination Dec. 28 to secure eligibles to fill five vacancies in the position of chainman or rodman in the Aqueduct Commission at a salary of from $900 to $1,050. Applications for this examination will be received until 4 p. m., Dec. 14. The official advertisement of the above examinations will be found in the advertising columns of the Engineering News.

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close Dec.	Work.	Place.	On file.	See issue.
*1	Bridge	Manila, P. I	P., S. & B. S.	7-28
*1	Light-house	Tompkinsville, N. Y.	P., S. & B. S.	11- 3
*1	Sewers	St. Joseph, Mo	P., S. & B. S.	11-10
*7	Water-works	Aberdeen, Miss	S	11-24
*12	Monuments	Wilmington, N. C.	P. & S	11-17
*15	Water-works	Santiago de Cuba	P. & S	11-17
*15	Water supply	Cuba	P. & S	11-17
17	Dredging	San Francisco, Cal	S	11-17
*20	Dam and lock	Boston, Mass	P. & S	11-17
27	Drafting materials	Wash., D. C.	P. & S	11-24
31	Traveling crane	Wash., D. C	S	12- 1

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Dec. 1. City lighting, Newport, Ky..............Nov. 17
Dec. 1. Power house sale, Chambersburg, Pa....Nov. 17
Dec. 1. Electric plant, Spring Lake, Mich.......Nov. 24
Dec. 1. Gasholder foundations, Richmond, Va....Nov. 24
Dec. 5. Electric plant, Oxford, Miss............Dec. 1
Dec. 6. Electric lights, plant, etc., Dallas, Tex...Oct. 27
Advertised, Eng. News, Oct. 27 and Nov. 3.
Dec. 20. Electric system, Ft. Leavenworth, Kan. Dec. 1
Dec. 20. Engines, etc., Cleveland, O............Dec. 1

BRIDGES.

Dec. 1. Bridge superstructure, Manila, P. I......July 28
Advertised, Eng. News, July 28 to Dec. 1.
Dec. 1. Bridge, Stockton, Cal.....................Nov. 24
Dec. 1. Bridges, Muskogee, Ind. T...............Nov. 24
Dec. 2. Bridge, Chicago, Ill......................Nov. 24
Dec. 3. Bridge, Moscow, Idaho ....Nov. 17
Dec. 3. Bridges, steel, La Crosse, Wis.........Dec. 1
Dec. 5. Bridge, Greenville, Miss.................Dec. 1
Dec. 5. Bridge, Oroville, Cal.....................Dec. 1
Dec. 5. Bridges, repaired, Carthage, Mo.......Dec. 1
Dec. 5. Bridge, steel, Sacramento, Cal..........Dec. 1
Dec. 5. Bridge, North Yakima, Wash............Dec. 1
Dec. 5. Bridge, Dillon, Mont.....................Oct. 20
Dec. 6. Bridge, Versailles, Ind...................Dec. 1
Dec. 7. Bridge, Atlantic City, N. J..............Dec. 1
Dec. 7. Bridges, Eau Claire, Wis.................Nov. 3
Advertised, Eng. News, Nov. 3 and 10.
Dec. 14. Bridges, Belgium.........................Nov. 10
Dec. 29. Bridge steel, Latrobe, Pa................Dec. 1
Jan. 2. Bridge, steel, Tombstone, Ariz..........Dec. 1
Jan. 5. Bridge, Redding, Cal......................Dec. 1
Jan. 5. Bridges, Phoenix, Ariz....................Dec. 1
Jan. 11. Bridge, steel, Billings, Mont............Dec. 1
Advertised, Eng. News, Dec. 1 to 29.

BUILDINGS.

Dec. 1. Light-house, Tompkinsville, N. Y.........Nov. 3
Advertised, Eng. News, Nov. 3 and 10.
Dec. 2. Fair buildings, Columbus, O.............Nov. 10
Dec. 2. School, Chicago, Ill......................Dec. 1
Dec. 3. Hall, etc., Delaware, O..................Nov. 17
Jan. 4. Post office, Dekalb, Ill...................Dec. 1
Advertised, Eng. News, Dec. 1 and 8.
Dec. 5. Buildings, etc., Nashville, Tenn........Nov. 24
Dec. 5. Court house, Tillamook, Ore............Nov. 24
Dec. 7. City hall, remodeling, Detroit, Mich....Dec. 1
Dec. 7. City hall, Sonoma, Cal..................Nov. 24
Dec. 8. Elevator, Salt Lake City, Utah..........Nov. 24
Dec. 8. Steam power, etc., New York, N. Y....Nov. 17
Dec. 10. Church, Chicago, Ill......................Nov. 17
Dec. 10. Railway station, Mobile, Ala............Nov. 10
Dec. 12. Court house, Providence, R. I...........Nov. 3
Dec. 12. Shed, Stockton, Cal.......................Nov. 24
Dec. 13. Elevator, Portland, Ore...................Nov. 24
Dec. 13. Steam heating, Portland, Ore............Nov. 17
Dec. 14. Electric work, Cheyenne, Wyo..........Nov. 17
Advertised, Eng. News, Nov. 17 to Dec. 8.
Dec. 14. Buildings, Cheyenne, Wyo...............Nov. 17
Advertised, Eng. News, Nov. 17 to Dec. 8.
Dec. 14. Post office, Biloxi, Miss..................Nov. 3
Advertised, Eng. News, Nov. 3 and 10.
Dec. 14. Post exchange, San Antonio, Tex.......Dec. 1
Dec. 15. Exposition bldg. and plans, Dallas, Tex. Dec. 1
Dec. 15. Post office, Norristown, Pa..............Nov. 3
Advertised, Eng. News, Nov. 3 and 10.
Dec. 15. Several buildings, Port Townsend, Wash. Nov. 24
Dec. 16. Crib superstructure, Chicago, Ill.........Nov. 24
Dec. 17. Library, Denver, Colo......................Nov. 3
Dec. 17. Court house, Camden, S. C................Nov. 24
Dec. 19. Heating, McKeesport, Pa...................Dec. 1
Dec. 20. Steam heating, Harrison, Ark.............Nov. 17
Advertised, Eng. News, Nov. 17 and 24.
Dec. 21. Wagon shed, etc., Oswego, N. Y..........Nov. 24
Advertised, Eng. News, Nov. 24 to Dec. 15.
Dec. 21. Post office, Gainesville, Fla..............Nov. 24
Advertised, Eng. News, Nov. 24 to Dec. 1.
Dec. 21. Court house, Faulkton, S. Dak...........Dec. 1
Dec. 28. Post office, Selma, Ala....................Dec. 1
Advertised, Eng. News, Dec. 1 and 8.
Dec. 29. Post office, Vincennes, Ind...............Nov. 24
Dec. 29. Hotel, Victoria, B. C.......................Nov. 3
Dec. 31. Frame building, Montrose, Colo..........Dec. 1
Advertised, Eng. News, Dec. 1 to 22.
Jan. 3. Court house, Wheeling, W. Va............Nov. 24
Jan. 10. Post office, Newcastle, Pa................Dec. 1
Advertised, Eng. News, Dec. 1 and 8.

WATER SUPPLY AND IRRIGATION.

Dec. 1. Air compressor, Washington, Ia...........Nov. 3
Dec. 1. Boilers, Chicago, Ill........................Nov. 17
Dec. 2. Pump, San Francisco, Cal..................Nov. 24
Dec. 5. Gate valves, etc., Montgomery, Ala.......Nov. 24
Advertised, Eng. News, Nov. 24.
Dec. 5. Artesian well, North Yakima, Wash....Nov. 24
Dec. 5. Water main, Grand Forks, N. Dak......Dec. 1
Dec. 5. Well, Madrid, Ia...........................Dec. 1
Dec. 5. Pipe, Pomona, Cal.........................Dec. 1
Dec. 6. Laying water mains, etc., New York, N.Y. Nov. 17
Dec. 7. Water-works, Carrollton, Ga...............Nov. 17
Advertised, Eng. News, Nov. 17 to Dec. 8.
Dec. 7. Water-works, Aberdeen, Miss..............Nov. 10
Advertised, Eng. News, Nov. 10 and 24.
Dec. 12. Water-works ext's'ns, Deadwood, S. Dak. Dec. 1
Dec. 13. Artesian well, Onalaska, Wis............Dec. 1
Dec. 13. Pumping station addition, Chicago, Ill..Dec. 1
Dec. 15. Water supply, Cuba........................Nov. 17
Advertised, Eng. News, Nov. 17 to Dec. 8.
Dec. 15. Irrigation ditches, etc., Hazen, Nev......Nov. 24
Advertised, Eng. News, Nov. 24 to Dec. 15.
Dec. 15. Water-works, Jefferson, Tex...............Nov. 24
Advertised, Eng. News, Nov. 24.
Dec. 17. Water-works, Marion, N. C................Nov. 24
Advertised, Eng. News, Nov. 10 and 17.
Dec. 19. Water-works, Holland, Minn..............Nov. 10
Dec. 19. Pumping engine, etc., Canton, O.........Nov. 24
Advertised, Eng. News, Nov. 24 and Dec. 1.
Dec. 19. Pumping engine, Montgomery, Ala......Dec. 1
Advertised, Eng. News, Dec. 1.
Dec. 20. Pipe, Toronto, Ont..........................Nov. 3
Advertised, Eng. News, Nov. 3 and 10.
Dec. 21. Pumps, boilers, engines, England.......Nov. 17
Jan. 9. Outlet tunnel, Washington, D. C.........Nov. 24
Advertised, Eng. News, Nov. 24 to Jan. 5.
Jan. 10. Pipe, etc., Washington, D. C.............Dec. 1
No date. Water pipe, Raton, N. Mex..............Nov. 17
Advertised, Eng. News, Nov. 17.

SEWERAGE.

Dec. 1. Sewers, Havre de Grace, Md...........Nov. 3
Advertised Eng. News, Nov. 3 to 17.
Dec. 1. Sewers, St. Joseph, Mo..................Nov. 10
Advertised, Eng. News, Nov. 10 and 17.
Dec. 2. Sewers, Omaha, Neb......................Oct. 13
Dec. 2. Sewers, Dayton, O.........................Nov. 24
Dec. 2. Sewer, Hamilton, O........................Nov. 24
Dec. 2. Sewers, Toledo, O..........................Dec. 1
Dec. 3. Sewer, N. Braddock, Pa..................Dec. 1
Dec. 6. Sewer, Arkansas City, Kan..............Nov. 24
Dec. 6. Sewers, Los Angeles, Cal................Nov. 10
Dec. 6. Sewers, Summit, N. J.....................Dec. 1
Dec. 6. Sewers, Cincinnati, O.....................Dec. 1
Dec. 7. Sewer repairs, New York, N. Y..........Dec. 1
Dec. 7. Sewers, New York, N. Y..................Nov. 24
Dec. 15. Sewers, Pine Bluff, Ark...................Nov. 24
Dec. 20. Sewer system, West Orange, N. J......Nov. 24
Advertised, Eng. News, Nov. 24 to Dec. 15.
Jan. 31. Sewers, water pipe, etc., New Orleans, La. Nov. 24
Advertised, Eng. News, Nov. 24 to Jan. 19.

STREETS AND ROADS.

Dec. 1. Sidewalks, Ashland, O.....................Nov. 24
Dec. 1. Sidewalks, Keokuk, Ia......................Nov. 3
Dec. 2. Sidewalks, etc., Hamilton, O.............Nov. 24
Dec. 2. Paving, Dayton, O..........................Dec. 1
Dec. 3. Road, Harrisburg, Pa......................Nov. 24
Dec. 4. Paving, Santa Ana, Cal....................Dec. 1
Dec. 5. Roads, Bedford, Ind........................Dec. 1
Dec. 5. Road, Brownstown, Ind....................Nov. 24
Dec. 6. Paving, etc., Henderson, Ky.............Nov. 24
Dec. 7. Sidewalks, Vancouver Barracks, Wash..Nov. 24
Dec. 7. Paving, etc., Brooklyn, N. Y.............Dec. 1
Dec. 7. Grading, etc., Vailsburg, N. J...........Dec. 1
Dec. 9. Road, Bakersfield, Cal......................Dec. 1
Dec. 9. Paving, St. Louis, Mo......................Dec. 1
Dec. 12. Gravel road, Tom's River, N. J..........Dec. 1
Dec. 15. Road, Uniontown, Pa......................Dec. 1
Dec. 17. Macadamizing, Norwood, O..............Dec. 1
Dec. 19. Paving, vitrified brick, Webb City, Mo..Nov. 17
Dec. 29. Roads, Winamac, Ind......................Dec. 1
No date. Ballast and screenings, Pittsburg, Pa....Dec. 1

MISCELLANEOUS CONTRACTS.

Dec. 1. Railway, Somerset Ry......................Nov. 3
Advertised, Eng. News, Nov. 3 to 24.
Dec. 1. Bulkhead, Buffalo, N. Y....................Nov. 10
Dec. 1. Dredge work, Kenton, O...................Nov. 24
Dec. 1. Riprap, Boston, Mass......................Nov. 24
Dec. 3. Coal handling plant, New Orleans, La....Oct. 20
Dec. 6. Naval supplies Washington, D. C.......Nov. 24
Dec. 6. Gas engines, England.....................Dec. 1
Dac. 7. Crematory, Portland, Me..................Nov. 17
Dec. 8. Dredging, San Francisco, Cal............Nov. 17
Dec. 8. Electric elevator, Washington, D. C.....Nov. 17
Advertised, Eng. News, Nov. 17 and 24.
Dec. 9. Hand carts, etc., Jeffersonville, Ind......Dec. 1
Dec. 10. Drainage work, Taylorville, Ill...........Dec. 1
Dec. 12. Telegraph system, Houston, Tex.........Dec. 1
Dec. 12. Garbage crematory, Muncie, Ind.........Dec. 1
Dec. 12. Monuments, Wilmington, N. C...........Nov. 17
Advertised, Eng. News, Nov. 17 to Dec. 8.
Dec. 13. Machine tools, Washington, D. C.........Nov. 17
Dec. 13. Electric elevator, Washington, D. C....Nov. 17
Dec. 13. Naval supplies, Washington, D. C......Dec. 1
Dec. 14. Hydraulic lift lock, Kirkfield, Ont.......Nov. 10
Dec. 15. Battleship, Washington, D. C............Sept. 29
Dec. 15. Canal improvement, Albany, N. Y........Nov. 24
Advertised, Eng. News, Nov. 24 to Dec. 22.
Dec. 15. Boiler house extension, etc., N. York, N.Y Nov. 24
Dec. 15. Tunnel, Boston, Mass......................Dec. 1
Advertised, Eng. News, Dec. 1 and 8.
Dec. 16. Coaling wharf, Savannah, Ga..........Nov. 24
Dec. 16. Window and door screens, Prescott, Ariz. Nov. 17
Advertised, Eng. News, Nov. 17 to Dec. 15.
Dec. 16. Wire screens, Washington, D. C........Nov. 24
Dec. 17. Lumber, Washington, D. C...............Nov. 24
Dec. 19. Mail conveying system, Chicago, Ill..Dec. 1
Advertised, Eng. News, Dec. 1 and 8.
Dec. 20. Compressor, Washington, D. C........Nov. 17
Dec. 20. Dam and lock, Boston, Mass...........Nov. 17
Advertised, Eng. News, Nov. 10 to Dec. 8.
Dec. 21. Box lockers, St. Paul, Minn..............Dec. 1
Dec. 25. Coal unloading apparatus, Belgium......Oct. 20
Dec. 27. Cranes, etc., South Africa ....Nov. 10
Dec. 27. Drafting materials, etc., Wash., D. C...Nov. 24
Dec. 28. Telephone material, Australia ....Nov. 24
Dec. 28. Telegraph material, etc., Australia......Nov. 17
Dec. 31. Portland cement, Washington, D. C....Nov. 24
Dec. 31. Traveling crane, Washington, D. C.......Dec. 1
Jan. 5. Fuel oil, etc., Phoenix, Ariz..............Nov. 24
Advertised, Eng. News, Nov. 24 to Jan. 4.
Feb. 8. Dam and bridges, Phoenix, Ariz........Dec. 1
Advertised, Eng. News, Dec. 1 to Feb. 5.
Mar. 31. Electric railway, China ....Oct. 20
Advertised, Eng. News, Oct. 20 to Dec. 29.
Apr. 1. Dredging, Sweden ....Nov. 24
No date. Quarry stripping, McDermott, O.......Nov. 24
Advertised, Eng. News, Nov. 24.

RAILWAYS.

ARKANSAS.—C. C. Godman, of Kansas City, Mo., is reported to have agreed to build a railroad from Little Rock to Leslie, a distance of 100 miles. Mr. Godman is the builder of the Arkansas Central and other railways. The Little Rock Board of Trade, Geo. R. Brown, Secy., and Geo. W. Rogers, Pres., will raise $100,000 by subscription to build the first 25 miles. Mr. Brown may be addressed.

ATLANTIC COAST LINE.—At annual meeting of the stockholders, held recently in Richmond, Va., the purchase of the Jacksonville & Southwestern for $665,000 was approved. Authority was also granted for the placing of a $2,000,000 mortgage on the property. The funds will be used to extend the J. & S. 80 miles, in addition to the 90 miles already finished. 52-mile extension from Newberry to Perry, Fla., will be begun soon.

Contract has been awarded to William T. Cotter, Jacksonville, Fla., for work in connection with proposed terminal at Jacksonville. This includes a wharf [illegible] ft. lang and large trackage additions to the present terminal yard at this place. Estimated cost, $1,000,000. Previously mentioned.

BASIN & ELLISTON.—An official states that the company will build a railroad from Basin to Elliston, [illegible] 29½ miles. Surveys have been made and work of construction is to begin at once. James McNaught, [illegible] New York City; F. G. Lott, Ch. Engr., Helena, [illegible] Robert I. McKay, Cleveland, O., is Secy.

BUFFALO & SUSQUEHANNA.—An extension of this line from Sykesville, Pa., to Southbend is under consideration. Surveys are being run. It is reported also that surveys have been made for a cut-off from [illegible], Pa., to Hickox, via Coudersport. Charles E. W[illegible]er, Buffalo, N. Y., is Construct. Engr. In connection with the proposed cut-off a 2-mile tunnel may be necessary. Estimated cost is placed at $125 a foot.

BUTTE, BOISE & SAN FRANCISCO.—Boise, Idaho, "News" announces that project to build this road has been revived. L. G. Wilkerson, of Weiser, Idaho, is said to be interested.

COLORADO, WYOMING & IDAHO.—Preliminary survey between Fort Collins and Laramie, Wyo., has been run. E. A. Buck is Engr.-in-charge, at Laramie. Construction work will be begun soon, it is said. As noted last week this company has been chartered to build a standard-gage railway from Denver, Colo., to Boise, Idaho. Capital, $10,000,000. John D. Mitchell, of Kansas City, is Attorney for the company. Estimated length of road is 825 miles, of which 325 will be in Wyoming.

DETROIT SOUTHERN.—New shops for this company will be built at Jackson, O., according to local report. Samuel Hunt, Receiver, Detroit, Mich., will secure site soon.

GEORGIA, FLORIDA & ALABAMA.—J. O. Hatch, Secy., Savannah, Ga., informs us that nothing of a definite character has been accomplished yet. Preliminary lines have been run between Havana, Fla., and Quincy, Fla. Noted on Nov. 17. James Bonnyman, Bainbridge, Ga., is Ch. Engr. J. P. Williams, Savannah, is Pres.

GREAT NORTHERN.—An extension from Aberdeen to Pierre, S. D., probably will be undertaken soon. It is said that the extension will be built along the grade of the Aberdeen, Pierre & Black Hills line, which was run from Aberdeen to Pierre years ago.

GUTHRIE, FAIRVIEW & WESTERN.—W. S. McCaull, Pres., 564 Speidley Bldg., Kansas City, Mo., is authority for statement that surveys have been made for this line northwest from Guthrie, Okla., to a point on the Kansas City, Mexico & Orient Ry., about four miles south of Fairview, Okla. Length of line, 70 miles. Construction will probably begin about January 1. L. Underwood is Secy. and Gen. Mgr., and George W. Cowles, Ch. Engr., Kansas City.

INTERNATIONAL & GREAT NORTHERN.—It is reported that this company will improve terminal at Houston, Tex. Estimated cost, $100,000. J. D. Trammel, Palestine, Tex., is Ch. Engr.

JASPER & EASTERN.—C. F. W. Felt, Ch. Engr. of the Gulf, Colorado & Santa Fe, at Galveston, Tex., writes us that charter has been granted to the Jasper & Eastern Co., to build from Kirbyville, Tex., to a point beyond the Kansas City Southern Ry. in Louisiana, crossing the Southern near De Ridder, La. Branches will be built as follows: from the main line between De Ridder, La., and the Sabine River to Carson, six miles; from the same point on the main line to Bon Ami, La., three miles; from the main line in Vernon Parish, La., to Neame, La., six miles; from the same point on the main line to Leesville, La., 15 miles, and from a point on the main line in Vernon Parish to a connection with the Kansas City, Watkins & Gulf, between Woodworth and Pawnee, La., 25 miles. Capital stock, $200,000. E. P. Ripley, Pres. of Santa Fe system, is Pres.; W. C. Nixon, 1st Vice-Pres.; M. F. Temple, 2d Vice-Pres. and Ch. Engr. The Lantry-Sharp Contracting Co., of Kansas City, Mo., has general contract for grading, bridging, track-laying, surfacing, oiling road-bed; also for building depots, stock-pens, water tanks, etc., for distance of 30 miles. Surveys are now in progress.

LIVE OAK & PERRY.—This line may be extended from Perry, Fla., to the mouth of the Aucilla River. Thomas Dowling, Live Oak, is Pres.; R. L. Dowling is Gen. Mgr.

LANSING MANUFACTURERS' RAILROAD.—Contracts for constructing proposed belt line around Lansing, Mich., will be let in January, 1905. J. H. Seagar, Houghton, Mich., is Pres. This company was incorporated several months ago to build a belt line 5¼ miles long in Lansing, Mich. Capital stock is $100,000. Samuel L. Smith and August Smith, of Detroit; James H. Seager, Houghton; and James H. Seager, S. F. Seager, of Lansing, were organizers. Line will start from Grand Trunk Ry. at Logan St., to connect with the Michigan Central, Pere Marquette and Lake Shore Rys. at North Lansing.

MISSISSIPPI & EASTERN.—An extension of this line will be made from Melvin, Miss., to Jackson, Ala., 120 miles. Contracts will be let in January. Surveys are in progress. James W. Glynn, Quitman, Miss., is Ch. Engr.

NEW YORK CENTRAL.—There are rumors current to the effect that this company may build either between Albany and New York or between Boston and Albany.

NEW YORK & OTTAWA.—It is stated that a sale will be held at Utica, N. Y., on Dec. 22. H. W. Gays, Ottawa, Ont., is Receiver and Gen. Mgr.

NUECES VALLEY, RIO GRANDE & MEXICO.—This company will build from deep-water port at Aransas Pass, Tex., west to Carrizo Springs, thence to Eagle Pass and Del Rio, on the Rio Grande. The line in Mexico will be chartered to run from Del Rio to Chihuahua, and thence to Guayamas, on the Gulf of California. The line is to connect with the International & Great Northern at Artesia, Tex.; with the Southern Pacific at Eagle Pass and Del Rio, and with the Kansas City, Mexico & Orient near Chihuahua. Engineers are now surveying the line in Texas, and in February next two engineering corps will begin the survey in Mexico, according to W. A. Squires, Vice-Pres. and Gen. Mgr., at Carrizo Springs. J. L. Zachery is Ch. Engr.

PENNSYLVANIA LINES WEST OF PITTSBURG.—It is stated that the Pittsburg, Cincinnati, Chicago & St. Louis will double-track its line from Indianapolis to Richmond, 68 miles, and between Florence and Xenia, 24 miles. Bids for this work will be received by W. C. Cushing, Ch. Engr. Maintenance of Way, Pittsburg.

PITTSBURG, BESSEMER & LAKE ERIE.—Right of way is stated to have been secured for a line from Butler, Pa., to New Castle.

ST. LOUIS, BROWNSVILLE & MEXICO.—Officials of this company are negotiating with a committee of the citi-

...ens of Galveston, Tex., regarding the extension of this railroad from Bay City, Tex., into Galveston, a distance of about 80 miles. This company now has under construction its line from Robstown via Sinton, Refugio and Placedo, to Bay City, about 150 miles. It is proposed to reach Galveston via Angleton, crossing Galveston Bay at the west end of Galveston Island. The citizens of Galveston are required to furnish the railroad company with depot and terminal grounds within the city and right of way through the county. It is stated that the proposition to extend this railroad from Bay City to Houston will be considered later. J. N. Miller is Gen. Mgr. and W. P. Honan, Ch. Engr., at Corpus Christi, Tex. At a recent meeting of the directors B. F. Yoakum, of St. Louis, was elected president. The company will take up with the citizens of San Antonio, Tex., the proposition to extend the road to that city from some point on the present line, probably Kingsville or Sinton, about 150 or 200 miles.

SOUTHERN PACIFIC.—Portland, Ore., reports declare that 148 miles of 80-lb. steel rails will be laid on this line next year, commencing at Ashland and running north. Estimated cost, $715,000. For ballasting required north of Ashland it will cost $110,000. This covers 83 miles of line. $800,000 is said to have been set aside for construction and repairs in the bridge department, for the rebuilding with steel, of wooden trestles or making fills. The work will begin immediately and will be completed by the end of next summer.

SOUTHERN RY.—C. H. Ackert, Gen. Mgr., Washington, D. C., is reported as saying that this company will extend the double track west of Atlanta, Ga., 11 miles to Austell, Ga. Other double-tracking is under consideration. W. H. Wells, Washington, D. C., is Engr. of Construction; D. W. Lum is Ch. Engr. M. W.

ST. LOUIS SOUTHWESTERN.—Company has its engineers in the field now locating an extension of the Lufkin Division from Monterey, Mex., southeast towards the Sabine River, through the counties of San Augustine, Sabine and Newton, Texas. The objective point of these surveys at the present time is not given out by the company. It is probable that the extension will be carried over into the timber belts of Louisiana in the direction of La Fayette. W. E. Green is Gen. Supt. and M. L. Lynch, Ch. Engr., at Tyler, Tex.

VIRGINIA & SOUTHEASTERN.—E. S. Fraser, of Bristol, Tenn., is in charge of the party of engineers running preliminary survey for this road. It was chartered recently to build from Tennessee line to Chesapeake Bay. Local reports give Clinchport as the starting point. John B. Newton, Bristol, Tenn., Gen. Mgr. of the Virginia & Southwestern, is interested in the new company.

NEW INCORPORATIONS AND CHARTERS.

AUGUSTA & FLORIDA.—Ga.—Chartered to build from Augusta to Midville, Ga., a distance of 78 miles. Capital stock is $1,000,000. G. R. Coffin and C. C. Howard are named as the incorporators, with headquarters in Augusta. Work will begin between Midville and Keysville, 30 miles.

BIG CREEK & THUNDER MOUNTAIN.—Idaho.—This company will apply for a charter in Idaho to build a railroad from Lardo to the north end of Big Payette Lake, thence along Payette River to Sedesh Summit, down Sedesh Creek to the south fork of the Salmon River, up the south fork and east to the mouth of Profile Creek; up the latter stream through Profile Gap to the head of Big Creek; down Big Creek to the mouth of the Monumental River and thence to Roosevelt, 130 miles. Capital will be $3,500,000. The directors of the company will be William H. Powell and Joseph M. Devere, of New York, and F. W. Hunt, C. J. Perkins and M. H. Jacobs of Boise. The road may be a narrow-gage.

CHICAGO & CENTRAL ILLINOIS.—Ill.—Incorporated to build a railroad from Chicago to Kankakee via Harvey, Homewood, Mattison, Peotons and Manteno. Capital stock, $100,000. Incorporators: William S. Reed, John B. Reed, Charles F. Davies, William H. Boris and Merton W. Hanford, all of Chicago.

CHERRY VALLEY.—O.—Company has been incorporated to build a coal railroad from Leetonia to Washingtonville, connecting with the Erie. Capital stock, $100,000. Incorporators: E. M. Peters, H. C. Forsyth, W. G. Lodge, M. A. Taylor, A. J. Sevenich. Headquarters at Leetonia, O.

COLORADO, WYOMING & IDAHO.—Colo.—This company has been incorporated in Colorado. It has been incorporated also in Idaho and Wyoming, as previously noted. Capital stock, $10,000,000. Directors are W. R. West, of Laramie, Wyo.; E. S. Chenoweth, McCracken, Kan.; Ora Haley, Laramie, Wyo.; Joseph Underwood, Chicago; Frank H. Steuart, Boston, Mass.; John D. Milliken, McPherson, Kan.; G. M. Huse, Boston, Mass.; Augustus Ruffner, Chicago, and J. S. Christman, Danville, Ill. The route as proposed is from Denver, Colo., to Boise City, Idaho. Surveys are said to have been run from Tie Siding, Wyo., to Fort Collins, Colo.

HELM & NORTHWESTERN.—Miss.—This company has applied for a charter to build a railroad from Helm, in Washington County, Miss., northwest to Arnold, in Tunica County, 20 miles, connecting with the Yazoo & Mississippi Valley Ry. at both points. J. W. Cashin, G. B. Rucks and others, of Greenville, Miss., are incorporators.

KANSAS CITY, TULSA & SOUTHWESTERN.—Ind. T.—Company has incorporated, with $2,000,000 capital, to build from Talala, Ind. T., to Wichita Falls, Tex., 250 miles. Survey has been run as far as Tulsa, Ind. T. Southwest of Tulsa the route is via Mounds, Ind. T., and Shawnee, Okla. A branch is to be built to Oklahoma City, and eventually it is proposed to extend the main line from Talala north to Chetopa, Kan., and from Wichita Falls south to Cisco, Tex. The officers are: Jay Forsythe, Pres.; C. W. Brown, Vice-Pres.; W. H. Hendren, Gen. Mgr. and Ch. Engr.; C. B. Lynch, Secy.; E. C. Reynolds, Treas. Walker & Talley are General Counsel. Headquarters, Tulsa, Ind. T. The proposed line will cross the St. Louis, Iron Mountain & Southern at Talala, passing through Collinsville on the Bartlesville branch of the Atchison, Topeka & Santa Fe., and through Tulsa, on the Arkansas River, in the Creek nation. At this point the road will cross the Oklahoma division of the Missouri, Kansas & Texas railway, the Midland Valley railroad and the Oklahoma division of the Frisco system. Continuing in the same general southwesterly direction, the line will cross the Texas division of the Frisco at Mounds, Ind. T., and thence it passes on through the Creek and Seminole nations to Shawnee, Okla. From Shawnee the road runs through the Chickasaw nation to Red River: thence to Wichita Falls, Tex.

MAHONING VALLEY WESTERN.—O.—An amended certificate of incorporation has been filed for a branch line from Newton Falls to a connection with the Pittsburg, Cleveland & Toledo Ry.

MINTER CITY, SOUTHERN & WESTERN.—Miss.—This company has been incorporated to build a line from Minter City to Dockery, 18 miles. The promoters are J. B. Kemp, G. B. McCob, G. B. Rucks, J. M. Cashin and E. R. Toons, of Greenville. The road will be finished 12 moonths after charter is granted.

MONROE & LAKE PROVIDENCE.—La.—Incorporated to build from Monroe to Lake Providence, 60 miles. Capital stock, $1,000,000. Directors: J. P. Parker, L. D. McLain, U. Millsaps, R. B. Blanks, J. S. Handy, I. D. V. Logan and others, of Monroe, and E. J. Hamley, C. S. Davis and others, of Lake Providence. A. A. Gunby is Pres.; E. J. Hamley, Vice-Pres.; R. A. Shotwell, Treas., and H. D. Apgar, Secy. A survey will be run at once.

SILVERTON RY.—Colo.—Articles of incorporation have been filed by this company. It is said to be probable that this new company has been formed to take over the present road of the same name which is now in the hands of a receiver. The headquarters will be at Denver. Alexander Anderson, Silverton, Colo.; J. A. Ewing, Leadville, Colo.; Otto Meers, Denver, and others are named as incorporators. Mr. Anderson is Receiver and Manager of the present Silverton Ry., at Silverton, Colo.

SUMTER & NORTHERN.—S. C.—Incorporated to build a railroad from Sumter via Providence, Mechanicsville, Bishopville, Brill, Stokes Bridge, Hartsville and Alligatorburg to McBee, S. C., 41 miles. Incorporators: R. E. Carnes, W. R. Scarborough and J. Ed. Stuckey. Headquarters, Sumter, S. C.

STREET AND ELECTRIC RAILWAYS.

SYRACUSE, N. Y.—The Syracuse Rapid Transit Co. is preparing to extend at once its East Syracuse line to Minoa, a distance of about four miles. W. P. Gannon is Pres.

LATROBE, PA.—The Brandville & Derry Street Ry. Co. was chartered at State Department. This corporation will build a line six miles long, extending from Latrobe through Bradenville to Derry, Westmoreland County. The company is capitalized at $36,000. Stephen Stone, of Pittsburg, is Pres.

TARENTUM, PA.—The Tarentum & Breckenridge Street Ry. Co. has ben organized and will present an ordinance at next meeting of Tarentum Council asking for a franchise. The road will extend along East Seventh Ave. to new road through Brackenridge borough, then up this road to Freeport road and back along East Tenth Ave. to Ross St. It is proposed to extend the line later to Butler by way of Freeport and Saxonburg.

ALLEGHENY, PA.—The Corporation Committee of Councils has an ordinance granting to the Allegheny, Evergreen & Millvale Street Ry. Co. the right to operate a line along the Evergreen Plank road to city limits. E. A. Cohen is Pres.

MEADVILLE, PA.—The Cleveland, Geneva & Meadville Electric R. R. Co. has been organized in New York City to build an electric railway between here and Cleveland, the proposed line being from Geneva to Austinburg, Jefferson, O., to Denmark, Gould and Pierpont, in Ashtabula County, O., and from the latter place to Meadville via Penn Line, Linesville and Conneaut Lake. Estimated cost, $1,250,000.

SUFFOLK, VA.—The Council has granted a franchise to Seaboard Traction Co. for construction of an electric railway in this city.

PARKERSBURG, W. VA.—It is reported that work on new street car line between this city and Sistersville will be completed in a short time, and that the firm of Lewis, Pope & Sons have been awarded contract to furnish the crossties.

GRAHAM, N. C.—The Alamance Supply Railway Co., capital $125,000, has been organized to construct an electric railway 22 miles in length, connecting the towns of Burlington, Graham, Haw River, Swepsonville and River Falls. J. W. Minifee, of Greensboro, N. C., is Pres., and can give information. They will develop a water power plant, with an 1,800-HP. capacity.

SAVANNAH, GA.—It is reported that the Savannah Electric Co. will expend about $100,000 in improving the local system. Stone & Webster, of Boston, Mass., are Gen. Mgrs.

JEFFERSON, GA.—The Jefferson & Athens Ry. Co. has been chartered by Secretary of State, with a capital stock of $50,000. The road will be 18 miles in length and will run from Jefferson to Athens. The motive power is not given.

TAMPA, FLA.—C. A. Boswell, of Bartow, and Col. C. A. Denman, Pres. Peninsular Telephone Co., are reported to be working on a plan to build a street railway between Tampa and Plant City, Pa. The plan involves the proposed purchase of dummy line now in operation near Tampa, and to convert it into an electric railway.

HATTIESBURG, MISS.—Local capitalists are organizing a company for the purpose of building an electric street railway, and at the next session of Municipal Council they will probably ask for a franchise.

ALGIERS, LA.—A franchise has been sold to Leigh Carroll and Lynn M. Dinkens to construct an electric railway in this city.

PADUCAH, KY.—Options are being secured for an electric railway between Paducah and Cairo, Ill. The distance is about 35 miles, and the estimated cost of the road is $800,000. Arrangements have been made for financing the construction and equipment of the line, and it is expected that the road will be in operation within a year. The line will be used for both freight and passenger business. The line will run to East Cairo and will reach Cairo proper by means of a transfer boat system.

STEUBENVILLE, O.—The Commissioners of Jefferson County have granted L. W. Heally and others, of East Liverpool Railway, a franchise to build a road from Empire, this county, to the Jefferson County line. From East Liverpool the Heally lines will be built to Beaver, and Wheeling & Pittsburg will be connected by an electric line.

INDIANAPOLIS, IND.—Brossmann & King, Consult. Engrs., Lencke Bldg., City, write us that they are about completing profiles and preliminary estimates for Central Indiana Traction Co., consisting of divisions from Indianapolis to New Castle, New Castle to Winchester, New Castle to Richmond, Muncie to New Castle, Anderson to New Castle and Greenfield to Maxwell, total about 140 miles.

MARSHALL, MICH.—Joseph J. Leavy, landlord of Washington Hotel, is projecting an electric railroad from here to Coldwater via Lyon Lake and Tekonsha. Property owners along the route have donated a right of way and money for construction is obtainable.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

BATTLE CREEK, MICH.—The Common Council has been asked for franchises for two new interurbans to enter this city. One is the Battle Creek & Coldwater Traction Co., running from this city to Coldwater, through Athens and Union City, and the other is Battle Creek, Grand Rapids & Inland Lakes Traction Co., running from this city to Gull Lake, thence to Grand Rapids. The franchises will probably be granted at next meeting of the Council.

KALAMAZOO, MICH.—The St. Joe River Traction Co. has been organized, with a capital stock of $750,000, to build an electric railway from Indiana line through Benton Harbor to Kalamazoo.

EVANSTON, ILL.—The Evanston Interurban Ry. Co., offices, 1575 Sherman Ave., plan to build an electric line west from Evanston to Niles Center and Cross Point.

MILWAUKEE, WIS.—Preliminary surveys are being made by Milwaukee Electric Railway & Light Co. for an interurban trolley line to run from North Milwaukee through Brown Deer, Cedarburg, Saukville, Grafton to Port Washington. John I. Beggs, Pres., states, however, that the work is only a preliminary, and that it has not even been decided to build the extension.

COUNCIL BLUFFS, IA.—An electric railway from Council Bluffs to Carson is being discussed.

ARKANSAS CITY, KAN.—The Kansas, Oklahoma Interurban Ry. Co. has begun its premanent survey and announced that the actual work of grading the line from this city to Chilocco Indian School in Oklahoma would begin within three weeks. The construction of this part of the road will be followed at once by construction of line between this place and Winfield.

KALISPEL, MONT.—The organization of Flathead Valley Railway Co. has been effected. The Flathead Valley will have a local system of electric lines radiating from Kalispel and connecting with a number of Northern Montana towns.

LAREDO, TEX.—The electric street railway system at Laredo, which is owned by G. Bedell Moore, of San Antonio, is to be extended and greatly improved. Frank E. Scovill is Mgr.

AUSTIN, TEX.—The Houston-Galveston Interurban Railroad Co. has increased its capital stock from $1,000,000 to $2,000,000. This company claims to have all plans arranged of an electric railway between Houston and Galveston, a distance of 50 miles.

HARTSHORNE, IND. T.—City Council has granted a franchise to Indian Territory Traction Co. to build its line through the business portion of town. The line will be completed and ready for business from South McAlester to Hartshorne by Jan. 1.

EVERETT, WASH.—County Commissioners have granted to W. M. Snyder and J. W. Hall, of Snohomish, 50-year franchise for an electric road from Monroe through the Sultan basin to the "45" mine. Construction must commence within six months after plat and profile of road are filed, and road be completed within six years.

SPOKANE, WASH.—Plans are under way for the construction of a branch line of Cœur D'Alene & Spokane Electric Railway to Liberty Lake.

WALLA WALLA, WASH.—Plans are on foot for building an electric railroad from Homily Rapids in the Columbia three miles above Wallula, into the Horse Heaven country to transport wheat and other produce to the river. The road would also carry supplies of water to the farmers in Horse Heaven. Yakima capitalists are behind the project.

DOWNIEVILLE, CAL.—It is planned to build an electric railway from Marysville to Downieville via Brown's Valley, Challenge and North Yuba River. The line will be about 65 miles long. W. I. Redding, Dist. Atty., is interested.

LIGHT, HEAT AND POWER PLANTS.

FORT ETHAN ALLEN, VT.—Bids are reported to have been received as follows for installing electric equipment at this fort: a, wiring and fixtures; b, distribution system; c, alternate bid; Thos. W. Byrne, Boston, Mass., a, $15,800; b, $10,600; c, $9,922. J. F. Buchanan & Co., Philadelphia, Pa., a, $16,000; b, $8,500. James Wilkinson & Co., Boston, Mass., a, $18,200. E-J Electric Installation Co., Boston, Mass., a, $18,700; b, $8,700, or both, $26,200. Clark & Mills Electric Co., Boston, Mass., a, $16,110. Northern Electric Co., Burlington, Vt., a, $15,739; b, $8,300; c, $8,050, or both, $24,039. Malcolm W. Hill, Baltimore, Md., a, $17,999; b, $8,934; c, $8,184, or both, $25,990; if wattmeters are installed only, deduct $1,200. Burlington, Vt., press reports states that contract probably will be awarded to the Northern Electric Co. Capt. T. B. Lamoureux is Q. M.

WATERBURY, CONN.—Naugatuck Valley Water Co. will be incorporated to develop water power of Naugatuck River. The backers of the enterprise are said to be John H. Whittemore and George A. Lewis, of Naugatuck; Charles F. Brooker and Franklin Farrel, of Ansonia, and Davis S. Plume, Edward L. Frisbie, Jr., and Edward O. Goss, of Waterbury.

NEW YORK, N. Y.—S. L. F. Deyo, Ch. Engr. of the Interborough Rapid Transit Co., has filed plans for a new 2-story fireproof power station for the Subway, to be erected on Hillside Ave., south of 11th Ave. It will be 103 × 58 ft., roofed with Spanish tile and copper and have an ornamental facade of brick, with limestone, brownstone and terra-cotta trimmings. Cost is estimated at $100,000. J. Van Vleck and P. C. Hunter are Archts. Noted on March 24. William L. Crow, 287 Fourth Ave., has general contract for this station.

LOCKPORT, N. Y.—Press reports state that contracts for the proposed canal and power equipment will be awarded before Jan. 1 by the Niagara, Lockport & Ontario Power Co. This will aggregate about $5,000,000. The proposed route of the hydraulic canal is from a point near LaSalle, N. Y., on the Niagara River, across the country to a place on Eighteen-mile Creek, known as the Gulf or the Devil's Hole. From there on the use of the rocky bed of the creek is contemplated. If the use of the creek proves impossible from any cause, then the canal itself will be continued. Last March it was reported that the Iroquois Construction Co., of New York, had contract for building a power canal at LaSalle to tap the Niagara River. Bill was passed renewing company's charter, which authorizes a diversion of sufficient water to develop 100,000 HP. at the head of the gulf in this city, but was vetoed by Gov. Benj. Odell. The new charter authorized transmittance of electric power anywhere in New York and Ohio. Reported that the Westinghouse Co. is backing the project. John Bogart, ex-State Engineer, is Chief Constructing Engr., and Cassius Wicker, of New York, is Superintending Engr. William Richmond is Pres. of the company.

TRENTON, N. J.—The Monterey Water, Sewer & Power Co., with an authorized capital of $4,000,000, has been incorporated in New Jersey for the purpose of construct-

ing water and power plants and building sewers. The incorporators are: J. J. Jermyn, Charles B. Wells, James J. Williams, George S. Brooks, James H. Torrey, Cyrus D. Jones, Charles H. Weston and P. G. Brooks, all of Scranton, Pa.; James D. Stecker, Jermyn, Pa., and Lewis B. Dailey, East Orange, N. J.

PENNGROVE, N. J.—The Penngrove Gas Co. will have plans prepared for a gas plant. New holders, power equipment, pipe, etc., probably will be required. Jonn Whitaker may be addressed.

TYRONE, PA.—The American Railways Co., Witherspoon Bldg., Philadelphia, is said to have had plans prepared for a brick and steel fireproof power house at this place.

NEW CASTLE, DEL.—See under Water-Works.

BALTIMORE, MD.—The Maryland Telephone & Telegraph Co. is stated to have awarded contracts for its electric light and power plant to be constructed in South Baltimore, as follows: Brick building for the plant, John Waters, 23 East Centre St.; electrical apparatus, to the Westinghouse Electric Mfg. Co., of Pittsburg, Pa.; turbine engines, to the Westinghouse Machine Co., of Pittsburg, Pa.; boilers, to the Sterling Boiler Co., of Chicago, Ill., and two stacks, one 150 ft. high, the other 200 ft. high, to the Tatnall Engineering Co., of Philadelphia, Pa. Total cost of this work is about $6,000,000.

BELAIR, MD.—B. Harvey Welch, Pres. Susquehanna Power Co., 1110 Betz Bldg., Philadelphia, Pa., has stated, according to a report, that it is proposed to construct a power plant on Susquehanna River, to cost $7,000,000. The date for receiving bids has not yet been determined. James H. Harlow, 2 Pleasant St., Baltimore, is Engr. Noted on Oct. 20.

BLUEFIELD, W. VA.—S. B. Chandler, it is reported, will prepare plans for a gas plant for the Flat Top Gas Co., recently incorporated with $100,000. Capacity of plant will be 50,000 cu. ft. a day. No engineer has been appointed yet, according to a report.

MORGANTOWN, W. VA.—Preliminary plans have been drawn by Prof. C. R. Jones for a municipal electric light plant. Estimated cost, $31,600.

FITZGERALD, GA.—See under Sewerage.

OXFORD, MISS.—Bids are asked for the construction of an electric light plant until Dec. 5. R. S. Adams, Mayor.

COVINGTON, LA.—The Southern Electrical Manufacturing Co., Ltd., capital $200,000, will build a plant here, according to Tradesman "Pink Sheet Bulletin." Dr. E. Y. Ames, of Covington, is Pres.; Arnold Heller, of New York, Vice-Pres., and E. J. Frederick, of Covington, Secy. and Treas. The company has secured control of all patents on the Simplex arc light and will manufacture the lamps here.

LAFOLLETTE, TENN.—See under Water-Works.

COOKEVILLE, TENN.—An election will be held Dec. 2 to vote on the question of issuing $25,000 of bonds for constructing an electric light plant and water-works.

YOUNGSTOWN, O.—The Hauk Gas Co. may erect a large gas plant in this city.

DAYTON, O.—The Dayton Electric Light Co.'s plant has been sold to New York capitalists, it is reported. The company recently announced its intention of putting all wires underground at cost of $500,000. Dr. J. E. Lowes is Pres. of the company. E. P. Matthews, Cy. Solicitor, is company Atty.

CLEVELAND, O.—Bids are asked until Dec. 20 for furnishing and installing one 175-HP. engine, one 100-KW. generator, and one 5-panel switchboard in power-house at Cleveland State Hospital. Frank L. Packard, Arch., Columbus, O. Dr. A. B. Howard, Secy. Bd. Trustees.

LAFAYETTE, IND.—A $200,000 power plant will be erected here by the Fort Wayne & Wabash Valley Traction Co. C. D. Emmons is Gen. Mgr. It is said that entire system will be improved.

GRAND RAPIDS, MICH.—A company is now being organized here with $2,250,000 capital to acquire the Jackson, Kalamazoo and Pontiac, Mich., gas companies, it is said. If project goes through extensive improvements to the plants in the three cities is planned. Hodenpyl, Walbridge & Co. are promoting the enterprise.

WHITEHALL, MICH.—R. H. Updyke, C. E., of Grand Rapids, is working on plan to dam the White River and for the construction of a large power house. Capital is said to have been secured.

KINMUNDY, ILL.—Council is stated to have granted James Lawrence Brown & Co., of St. Louis, Mo., a franchise to pipe natural gas and maintain a heating and lighting system.

KENOSHA, WIS.—James Gorman, Mayor, has recommended that municipal light plant be installed.

ST. PAUL, MINN.—Union Mfg. Co. has applied to Council for an electric lighting and power franchise.

GIRARD, KAN.—City electric light plant is offered for sale at $2,000. Cost was $10,000. It has capacity of 1,000 incandescent and 25 arc lights.

FORT LEAVENWORTH, KAN.—Bids are asked until Dec. 20 for extending electric lighting system at Ft. Leavenworth. Major D. E. McCarthy, Q.-M.

TEKAMAH, NEB.—An election may be held to vote $10,000 of bonds for purchase or construction of municipal light plant.

YANKTON, S. DAK.—Yankton Improvement Co. has incorporated with capital stock of $100,000. Isaac Piles, William S. Stockwell, Sanford G. Donaldson and Michael Magner are incorporators. The company will apply to the city council for a franchise to build and operate an electric light and gas plant in Yankton. The site will be on the South Side.

WHITEFISH, MONT.—See under Water-Works.

POCAHONTAS, ARK.—Council has awarded to S. C. Dorrell, of Walnut Ridge, a franchise for an electric light plant. It will cost $25,000.

JOPLIN, MO.—City light plant in East Joplin is reported destroyed by fire. Loss, about $50,000.

ST. JOSEPH, MO.—Contract for building the new power house for the municipal electric light plant was awarded by the Board of Public Works to Warner Bros., at $13,291. The other bids were: J. W. Stamey, $13,300; P. P. Buddy, $13,379; A. J. Lynch, $13,565; J. W. Lehr, $13,572; Hugh King, $13,972; George W. Wright, $14,349; W. C. Montfort, $14,500.

Bids for the machinery and equipment of the city electric light plant are reported to have been received, as follows: General Electric Co., dynamos, lamps and switchboard, $29,712; Ft. Wayne Electrical Wks., dynamos, lamps and switchboard, $22,450; Adams-Bagnall Electric Co., bid on lamps only, $7,800; Western Electrical Co., dynamos, lamps and switchboard, $18 448 and $20,183.

UVALDE, TEX.—A. M. Fisher, of Waco, will install an electric light plant here.

KIRBYVILLE, TEX.—An electric light plant will be erected, it is reported.

ANADARKO, OKLA.—Municipal lighting plant will be erected.

SEATTLE, WASH.—An election will be held on Dec. 6 to vote on the issue of bonds, as follows: $175,000 for the construction of city jail, municipal court and hospital, and $250,000 for the extension to present municipal light plant.

BALLARD, WASH.—Ernest V. Brewer will install an electric light plant here, if granted a franchise.

SPOKANE, WASH.—D. N. Huntington, Gen. Mgr. of the Washington Water Power Co., has stated that power plant will be erected at Post Falls. Contracts will be let at once; 6,000 HP. will be developed at first. Main building will be 150 × 75 ft.

CHEWELAH, WASH.—J. G. Kulzer, of Valley, Wash., is making arrangements for development of 600 HP. near this place.

PHILOMATH, ORE.—City Council has granted right to construct and maintain an electric light system in this city to A. B. Horning.

COVINA, CAL.—E. A. McGillervay, of Corona, has been awarded contract for construction of new gas plant for the Covina Valley Gas Co. J. H. Coolman, Supt., has purchased pipe and will commence at once laying mains.

SAN BERNARDINO, CAL.—Seth Hartley has been granted a franchise to lay gas pipes and conduits and to construct and operate a gas plant in this city.

FULLERTON, CAL.—See under Water-Works.

EUREKA, CAL.—L. F. Puter, Atty. for the North Mountain Power Co., has presented petition for an electric power franchise. Sale will be held Dec. 15.

FRESNO, CAL.—F. W. Bray has applied to Supervisors for franchise for construction and operation of an electric light plant and system; for a gas light plant and works and a water-works and system for town of Coalinga. Board will hold a meeting Dec. 14 for purpose of granting franchise. W. O. Miles is Clk.

PHOENIX, ARIZ.—The Green River Power, Land & Irrigation Co. has been incorporated, with principal office at Phoenix. Capital $500,000. Incorporators: P. W. Barclay and Geo. C. Plummer.

FORT STEEL, B. C.—The Bull River Mining & Power Co. will install a large power plant for electric lighting and to supply power to the mines in the Kootenay Valley.

BRIDGES.

WINDSOR LOCKS, CONN.—The Railroad Commissioners have granted to the New York, New Haven & Hartford R. R. Co. permission to construct an iron bridge across Connecticut River between Windsor Locks and Enfield. The bridge will be a double track structure, and will replace the present single track one. The piers are now being erected.

ELMIRA, N. Y.—The Common Council has decided to hold a special election Dec. 9 to vote upon a proposition to expend $16,000 for repairs to Lake St. bridge.

BUFFALO, N. Y.—The Aldermanic Bridge Committee has decided to reject all bids received for construction of bridge over Buffalo River at Ohio St.

MIDDLEBURG, N. Y.—The Owego (N. Y.) Bridge Co has received the contract, it is reported, for constructing an iron bridge over Schoharie Creek here for $15,000.

ATLANTIC CITY, N. J.—Bids are asked by Committee on Bridges of Board of Chosen Freeholders of Atlantic County until Dec. 7 for construction of a highway bridge on Pleasant Mills road, in town of Hammontown. Specifications on file in office of Frank Enderlin, Chn. Com.

TOM'S RIVER, N. J.—R. L. Disbrow, Chn. County Bd. Chosen Freeholders, is reported as stating that the contract for constructing a steel bridge across Tom's River has been awarded to New Jersey Bridge Co., Fuller Bldg., New York. Bids were opened Nov. 11.

WILLIAMSPORT, PA.—The Lycoming and Tioga County Commissioners have arranged to repair joint bridge spanning Lycoming creek at Roaring Branch.

LATROBE, PA.—Bids are asked by Westmoreland County Commissioners until Dec. 29 for construction of substructure and superstructure of steel bridge, three-span, 256 ft. long, with 18 ft. roadway, over Loyalhanna creek.

HARRISBURG, PA.—The following were the three lowest bids received Nov. 22 for rebuilding bridge (a) over Catawissa creek, Catawissa Boro., and of bridge (b) over Catawissa creek, Beaver Township: (a) Penn Bridge Co., $19,100; Eyre Construction Co., $16,990; Canton Bridge Co., $19,500; Horn & Neff, $19,500; (b) Alleger & Co., $3,297; Penn Bridge Co., $3,500; York Bridge Co., $3,378; Eyre Construction Co., $3,500. Contract will probably be awarded to the lowest bidder. J. M. Shumaker, Supt. Comrs. Grds. and Bldgs.

COLUMBUS, GA.—It is stated that the County Commissioners have decided to construct a steel bridge over Randall Creek, near here. County Clerk can give information.

GREENVILLE, MISS.—Bids are asked by Board of Supervisors of Washington County until Dec. 5 for construction of a pile bridge on Road No 122; also for repairing Crook bridge across Bogue Phalia. T. H. Hood, Clk.

COVINGTON, LA.—The Police Jury has decided to advertise for bids for the removal of iron bridge over Bogue Falaya River. They will also advertise for bids for construction of an iron bridge, the roadway of which will be 16 ft. wide.

SHREVEPORT, LA.—The State Legislature has authorized the city of Shreveport to construct a draw bridge across Red River at this point. Bill will be introduced in Congress in December authorizing it. Andrew Querbes is Mayor.

NASHVILLE, TENN.—The rumor has been revived that the Nashville, Chattanooga & St. Louis Railway will soon erect a bridge across Tennessee River at Byrd's Bluff and do away with the long steamboat transfer from Hobbe Island to Guntersville. H. McDonald, City, is Ch. Engr.

AKRON, O.—The viaduct to abolish grade crossing at East Exchange St. is to be built at once. J. W. Payne is Cy. Engr.; Osborn Engineering Co., of Cleveland, is Consult. Engr.

TOLEDO, O.—The Board Public Service has recommended to City Council the erection of a new concrete steel bridge to replace Cherry St. bridge. Frank I. Consaul is Ch. Engr. for Board.

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CLEVELAND, O.—The Wheeling & Lake Erie has completed plans for bridge over the river to be built next spring. The plans have been approved by the government and work will start as soon as the weather permits. Cost, $100,000. W. S. Newhall is Ch. Engr., City.

INDIANAPOLIS, IND.—Contract for building new bridge over Pleasant Run in East Washington was awarded to National Bridge Co. by Board Public Works for $10,885.

EVANSVILLE, IND.—The County Council has made an appropriation for three bridges in Vanderburg County.

VERSAILLES, IND.—Bids are asked until Dec. for rebuilding abutments for a wagon bridge; also for constructing bridge over Laugherty Creek in Laugherty Township. Nicholas Volz, County Audr.

BRAZIL, IND.—County Commissioners let contract for four concrete bridges on Graeser road in Sugar Ridge township, to National Bridge Co., for $2,050.

INDIANAPOLIS, IND.—A contract for construction of a steel and concrete bridge over Pleasant Run, East Washington St., has been awarded to National Bridge Co. by Board Public Works, for $10,835.

ST. JOSEPH, MICH.—Contract for construction of Napier bridge, at the limits of this city, was awarded to Pan-American Bridge Co. of Greencastle, Ind., for $18,498. Construction will begin at once.

LA SALLE, ILL.—H. O. Westmark, C. E., of Aurora, is preparing plans for bridge over Little Vermillion River at this place.

LA CROSSE, WIS.—Bids are asked by County Clerk until Dec. 3, 10 a. m., for construction of two steel bridges on McGillvray road.

DES MOINES, IA.—It is stated that plans are being prepared for two spans for the completion of Sixth Ave. bridge. Est. cost, $40,000.

TOPEKA, KAN.—County Commissioners have passed a resolution providing for the immediate construction of Sardou Ave. bridge.

TOPEKA, KAN.—Jos. F. McCabe, Cy. Engr., is preparing plans for a concrete bridge, to cost about $21,000; also for five small steel bridges, at a total cost of $10,000.

ABERDEEN, S. DAK.—The Brown County Commissioners have decided to build six county bridges this winter, the exact places to be decided at meeting of Board in December. The bridges will be built of fir and the lumber has been ordered.

BILLINGS, MONT.—Bids are asked by J. W. Fish, County Clk., until Jan. 11 for construction of a steel bridge or combination highway bridge across Yellowstone River, near Junction. (Advertised, Engineering News.)

CARTHAGE, MO.—Bids are asked by County Commissioners until Dec. 5 for repairing McCann, Railford and Jasper bridges over North Fork of Spring River. Also for making fills for approaches to Hackneyford bridge on Dry Fork. T. V. Grieb, County Surveyor.

LITTLE ROCK, ARK.—Contracts have been awarded to Converse Bridge Co., of Chattanooga, Tenn., for building three bridges in Yell County. One is to be built across Fourche near Ward's crossing, ten miles south of Ola, steel span, 200 ft long, at a cost of $9,998; one across Slough, near Pontoon, steel span 50 ft., cost $1,335; one across Dutch creek, two miles from Danville, 100 ft. six panel steel span, 30-in. tubes, for $3,335.

OLA, ARK.—Contract for constructing a steel bridge with 200-ft. span here is stated to have been awarded to Converse Bridge Co., Chattanooga, Tenn., for $9,998.

JASPER, ARK.—Judge E. E. Ammons has awarded a contract to Texas Bridge Co. for a wagon bridge over big Buffalo for $5,040.

DENVER, COLO.—Contract for construction of bridge over White River in Rio Blanco County was awarded by State Engineer to M. J. Patterson, City, for $1,865.

PUEBLO, COLO.—It is expected that the Denver & Rio Grande will soon erect a viaduct here. E. J. Yard, of Denver, is Ch. Engr.

EVERETT, WASH.—New bids will be called for constructing a bridge across Sultan River by County Commissioners.

NORTH YAKIMA, WASH.—Bids are asked by County Commissioners until Dec. 5 for constructing a bridge across Wena River, according to plans and specifications on file in office of County Auditor.

SPOKANE, WASH.—An ordinance was passed by Council appropriating $7,500 for a bridge across the Spokane River at Olive Ave.

OROVILLE, CAL.—It is reported that bids will be received by Board of Supervisors until Dec. 5 for a combination bridge across Butte Creek near Durham.

SACRAMENTO, CAL.—Bids are asked by Board of Supervisors until Dec. 5 for new steel bridge over Sacramento River at Kercheval's place.

SACRAMENTO, CAL.—J. C. Boyd, County Surveyor, presented specifications for construction of drawbridge from mainland to Grand Island. The Board approved the specifications and ordered them forwarded to Federal War Department.

LOS GATOS, CAL.—An ordinance was passed by Board of Trustees and approved calling a special election to be held Dec. 5 for the purpose of submitting the question of issuing bonds in the sum of $24,000 for construction of a concrete, steel and stone bridge over Los Gatos creek on Main St., the construction of a sewer, septic tank and sewerage system. K. H. Erickson is Town Clk.

REDDING, CAL.—Bids are asked by Board of Supervisors until Jan. 5 for construction of a stringer bridge across Eagle Creek, near Ono.

PHOENIX, ARIZ.—U. S. Reclamation Service, Phoenix, is asking for bids until Feb. 8 for construction of two bridges in connection with building of dam on Salt River, as is stated under Miscellaneous Contracts.

TOMBSTONE, ARIZ.—Bids are asked by Board of Supervisors until Jan. 2 for construction of a steel bridge across San Pedro River at Hereford crossing.

BUILDINGS.

PORTLAND, ME.—The following contracts were let for the construction of 17 public buildings and alterations to one stone cottage, including plumbing and heating, at Fort Levett: General construction, Colin D. Rankin, 35 Dundee St., Boston, Mass., $169,002; plumbing, A. L. Dow & Co., Portland, Me., $11,333.50; heating all buildings, except hospital, A. H. Moulton, Portland, $6,420; heating hospital, Walworth Construction & Supply Co., Boston, $2,199. A. W. Yates, Q.-M., 185 Middle St., Portland.

LEWISTON, ME.—Christmas Coumont, Chestnut St., will prepare plans for $200,000 cathedral for St. Peter's parish, as noted last week. Wm. R. Miller, 129 Lisbon St., is Associate Arch.

AUBURN, ME.—Chickering & O'Connor, Archs., Boston, will draw plans for a $40,000 church. Rev. Father Gauthier, 88 Third St., is interested.

ALBANY, N. Y.—Andrew Carnegie is reported to have offered $150,000 for a library building to be presented to the city through the Albany Free Library of the South End. A similar offer made by Mr. Carnegie several years ago was submitted to a referendum vote and rejected by the citizens.

NEW YORK, N. Y.—John Clark Udall, builder, 1 Union Sq., who has general contract for 5-sty Hispanic Society Museum, will let sub-contracts soon. Building will be about 100 × 63 ft., to be erected on 155th St., near Broadway. C. P. Huntington, 142 East 33d St., is Arch.

Klein & Jackson, 49 Wall St., will erect a Casino at Broadway and 96th St. Rouse & Sloan, 396 Broadway, Archs.

LONG ISLAND CITY, N. Y.—The Queens County Court House was burned on Nov. 26. Loss is said to be about $—,000.

Plans are now before the New York City Art Commission for proposed new borough hall. Preston B. Seaman is Architect for one set under consideration. Cost, according to newspaper accounts, is estimated at $350,000 to $1,000,000.

BROOKLYN, N. Y.—Bids were received on Nov. 22 by Department Street Cleaning for construction of a stable at Flushing and Kent Aves., and Graham and Little Nassau Sts., as follows: For building alone: P. E. Henningham, 4 Court Sq., $330,000; Snare & Triest Co., 39 Cortlandt St., $346,900; Thos. Dunnelon & Son, 294 Butler St., $442,050; P. J. Carlin Construction Co., 1 Madison Ave., $338,000; Charles H. Peckworth, 415 Hudson St., $354,000; M. C. Rush, 327 Franklin Ave., $383,-000; D. J. Ryan, 723 Third Ave., $386,000; L. W. Seaman & Son, 133 Grant Ave., $365,000; Geo. Hildebrand, 38 Park Row, $377,640; John Kennedy & Co., 1133 Broadway, $418,000; Clarke & Stowe, 15th Ave. and 71st St., Brooklyn, $329,400; Ryan & McFarren, 106 East 23d St., $400,000; Thos. G. Carlin, 215 Montague St., $406,000; H. Probst, 10 West 22d St., $347,900. For ventilating and heating: Wm. Horne Co., 245 West 26th St., $4,773; Baker Smith Co., 83 West Houston St., $5,283; and Baldwin Engineering Co., $5,775, were three lowest bidders. For plumbing, James Fay, 205 East 51st St., $14,837, and Rossman & Brocken Co., 132 East 42d St., $15,515, were lowest bidders. For electrical work: Brown & McClure, 100 5th Ave., $1,833; M. B. Foster Co., $1,990, were lowest bidders.

NEW YORK, N. Y.—Bids were received on Nov. 28 by Trustees College of New York for heating and ventilating work for buildings to be erected on St. Nicholas Ave., as follows: United Heating Co., 174 Wooster St., $316,221; Wells & Newton Co., 17th St. and Ave. B., $334,700; Baldwin Engineering Co., 107 West 17th St., $349,500; Rossman & Bracken Co., 132 East 42d St., $380,000; Gillis & Geoghegan, 537 West Broadway, $290,000; Geo. A. Sutter, 112 Wooster St., $307,000; New York Steam Fitting Co., 133 Elm St., $273,000; Blake & Williams, 211 West 20th St., $253,723; Evans, Almiral & Co., 281 Water St., $322,539; Baker, Smith Co., 83 West Houston St., $293,746.

NEW YORK, N. Y.—Bids were received on Nov. 22 for construction of walls for Bronx Borough Court House at 161st St., Third Ave. and Brook Ave., as follows: Bart Dunn, 444 East 68th St., $42,820; Louis Weschler, 1130 Broadway, $74,500; The Foundation Co., 35 Nassau St., $51,674; C. Beckwith, Jerome Park, $42,203; Century Construction Co., 7 East 42d St., $33,560; S. Niewenhous, 18 East 126th St., $46,800; Ryan & McFarren, 106 East 23d St., $50,000; Hartmann & Horgan, 236 4th Ave., $73,000; United Engineering & Construction Co., 13 Park Row, $37,945; Y. Guilardi, 114 East 23d St., $44,535; M. J. Leahy, 990 East 156th St., $51,000; Jos. Gallo, 127 Mulberry St., $34,000; Luke Burke & Sons, 401 West 59th St., $39,700. Century Censtruction Co. was awarded the contract, we are informed.

PATERSON, N. J.—Charles H. Mersereau has general contract for Young Women's Christian Association building, at $38,792; Quinn Brothers, plumbing, $3,476; Benjamin Roegiers, heating apparatus; J. Radcliff & Son, iron work.

ATLANTIC CITY, N. J.—J. E. & A. L. Pennock, Land Title Bldg., Philadelphia, have contract for additions to Galen Hall Hotel. Estimated cost, $176,000.

JERSEY CITY, N. J.—Board of Health has appointed Clinton & Russell, 32 Nassau St., New York, to prepare plans for the new city hospital. Only a portion of the structure will be erected, as the appropriation is limited to $200,000. Noted previously.

WEST HOBOKEN, N. J.—Bids have been received for new school to be erected on Clinton Ave., between Dodd and Jane Sts. Bids were as follows: Carpenter work: Hubert Bove, $14,875; Frederick Berke, $15,250; C. W. Wyckoff, $16,415. Mason work: Michael T. Connelly, $40,000; G. Decker, $33,000; J. W. Cranwell & Son, $32,-000; Ermetti & Lapori, $31,600. Roofing and metal work: Schreck & Welte, $1,992; Frank Greenthaler, $2,700; Osmar Poeschel, $1,998. Painting: Richard J. Lynch, $1,-450. Steam heating and ventilating: Wm. J. Murphy, $7,485; John T. McLaughlin, $5,667; Heatherton Bros., $6,705. Plumbing: John Boylan, $2,168; August Handley, $2,348; Henry C. Steinhoff, $2,242. Metal ceiling work: Jas. B. Maguire, $1,427 Wheeling Corrugating Co., $1,717; New York Metal Ceiling Co., $1,650; Canton Steel Ceiling Co., $1,565.

PITTSBURG, PA.—Western University of Pennsylvania will be removed from Allegheny to Pittsburg. New site probably will be located near Carnegie Technical School. Twenty buildings, costing several million dollars, will be erected. Andrew Carnegie is interested in the project.

BUTLER, PA.—Bids are reported asked by Porter & Gaisford for a 4-story hotel, 36 × 86 ft., for C. H. Gies, until Dec. 14. An electric plant will be built in connection with hotel. Cost, $35,000.

ASPINWALL, PA.—W. V. Hughes & Son, of Altoona, Pa., have been awarded contract for a passenger station and overhead tracks for Pennsylvania Ry. Co.

PHILADELPHIA, PA.—Contracts for new schools have been awarded as follows: Fifteen division school, Wharton and Sheridan Sts., to Lynch Brothers, $73,700; twelve division building. Third and Christian Sts., Lynch Bros., $59,400; six division addition to the Elwood School, Oak Lane, near Old York Road, to David Peoples, $47,728.

NEWCASTLE, PA.—Bids are asked until Jan. 10 by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., for construction complete of postoffice here. (Advertised, Engineering News.)

McKEESPORT, PA.—Bids are asked until Dec. 19 by Board of Education for heating system for four new school houses to be erected. Bids will be for installation of mechanical furnaces, hot air heating and ventilating system, thermostatic control.

TRENTON, N. J.—Among bills to be presented at the coming session of the New Jersey Legislature will be appropriation measures asking for $250,000 for a new State Normal School, the building of a separate structure of the State's criminal insane, for a new wing to the State prison, for improvements at the Sea Girt camp grounds, for the State Tuberculosis Sanitarium and an increased appropriation for the road system.

PITTSBURG, PA.—Scottish Rite Masons will erect $800,000 building in Oakland district. At recent meeting $200,000 was appropriated.

The Atlas Land Co., City, will erect two 42-room apartment houses on Baum St., East End. Cost, $52,000.

CONNELLSVILLE, PA.—The Colonial National Bank, L. F. Ruth, Pres., will erect new bank building at East Pittsburg and Main Sts. Granite and white marble. E. W. Campbell, City, is Arch.

PITCAIRN, PA.—Board of Education, W. G. Bell, Pres., is having plans drawn for new school house here. Brick, three stories, 60 × 88 ft. Architect is S. C. Richards, Braddock, Pa. Plans will be ready for estimates about Feb. 1, 1905.

MOUNDSVILLE, W. VA.—Glen Easton Coal & Coke Co., W. G. Cronkright, Gen. Mgr., Keystone Building, Pittsburg, Pa., will erect 50 dwelling houses at works near here. E. T. Breisch, Keystone Bldg., Pittsburg, is in charge.

WASHINGTON, D. C.—Ambrose B. Stannard, 1133 Broadway, New York, has been awarded the general contract to build two 5-story granite laboratory buildings for the Department of Agriculture, at $1,117,000.

Burges & Parsons, 627 F St., N. W., have been awarded contract for nine flat buildings at North Carolina Ave. and B St., N. E., for H. A. Gibbs.

James L. Marshall, 1321 G St., N. W., has contract for addition to Ontario Apartment House at Lanier Heights. Previously mentioned.

Wood, Donn & Deming, Archs., 808 17th St., N. W., have invited bids, it is said, for an apartment house to be erected at 1735 H St., N. W., for Shepherd & Jenkins. Estimated cost, $150,000.

Competitive plans will be received for group of buildings for George Washington University at Van Ness Park. The University is now known as the Columbian University. The George Washington Memorial Building will cost $500,000.

Plan for District Police Court building submitted by Henry Simpson, 735 15th St., N. W., has been accepted. Estimated cost, $72,000.

BALTIMORE, MD.—Ordinances are reported to have been passed in both the First and Second Branches of the Council appointing a commission and appropriating $435,000 for erecting markets on Centre Market Space. It is also proposed to alter the St. Paul St. side of the court house and to appropriate $150,000 for this improvement.

Pierre, Dugan & Nephew are said to be interested in plan to erect a 4-story hotel, 50 × 100 ft., at Postoffice Ave. and Water St. Estimated cost, $70,000.

Contract for First National Bank building on South St. has been awarded to Geo. A. Blake, Builders' Exchange. One story, 50 × 145 ft., marble, brick, white terra cotta and steel fireproof, steam heat, electric light, etc. Cost, about $100,000.

Chas. Gilpin, Pennsylvania Bldg., Philadelphia, has contract for hotel at 6-8 North Howard St. for Merchants' Hotel Co. Cost, about $150,000.

ATHENS, GA.—Lowest bids received for installing low pressure steam heating apparatus for post office and court house at Athens were submitted by Domblatt Plumbing Co., Athens, at $3,900; Alabama Supply Co., Birmingham, Ala., $3,995, and E. J. McDonough, Chicago, Ill., $4,000.

ATLANTA, GA.—Willis F. Denny, 1018 Prudential Bldg., has prepared plans for remodeling the Kimball House for the Kimball House Co. Bids will be received about Jan. 1. It will cost $100,000.

SELMA, ALA.—Bids are asked until Dec. 28 for construction complete of a postoffice here. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C. (Advertised, Engineering News.)

PURVIS, MISS.—P. H. Weathers, Arch., Jackson, Miss., has been commissioned by Board of Supervisors to prepare plans for the proposed $50,000 court house.

MOBILE, ALA.—$200,000 of bonds will be issued for the erection of a jail, improving property at Royal and Church Sts. for public offices, and improving and enlarging the poor asylum. No plans have been made. Address W. H. Holcombe, Pres. Bd. of Revenue and Road Commissioners. Mentioned last week.

LOUISVILLE, KY.—Kenneth McDonald and J. F. Sheblessy, Archs., Fourth and Main Sts., will soon receive bids for a Jewish temple, to be erected on Third Ave., York and Breckenridge Sts., for the Congregation of Adath Israel, Rabbi Enelow. Building will be 75 × 180 ft., of brick, faced with stone. Cost, $90,000.

HAVRE DE GRACE, MD.—Plans by Wyatt & Nolting, Builders Exchange, Baltimore, have been accepted for a new dining hall building, to be erected at Tome Institute, Havre de Grace, it is reported. Two stories, 150 × 200 ft., stone, concrete, brick and steel, steam heat, electric light, cold storage plant, garbage destroying plant, bakery, laundry, etc. Reported cost, about $150,000.

ELMGROVE, W. VA.—Plans will be prepared for a $75,-000 manual training school. Bishop P. J. Donahue, of Wheeling, may be addressed.

NEW ORLEANS, LA.—F. J. Noullet submitted the only bid received by the Finance Committee for erecting the city hall annex. Bid was $167,820 for a building with terra cotta front as a substitute for granite and marble; $209,000 for a building with armored concrete construction, and $209,000 for a building with cast-iron columns, steel framing and concrete fireproofing. Appropriation is $160,000. New bids will be advertised.

DETROIT, MICH.—Bids are asked until Dec. 7 by Department Public Works for furnishing material and remodeling city hall. Donaldson & Meier, Archs., Moffat Bldg. Wm. H. Maybury is Comr.

CINCINNATI, O.—Chas. L. Harrison has stated that a 12-story concrete building will be erected at Elm and Fourth Sts., at cost of $250,000. Gustave W. Drach is Arch. The L. B. Harrison estate is owner.

James G. Rogers, Ashland Block, Chicago, is said to be receiving bids for a residence to be erected at College Hill for P. Thompson. Three stories, 75 × 150 ft., of stone. Cost, about $100,000.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

INDIANAPOLIS, IND.—Gen. A. R. Chaffee has recommended that a $500,000 military prison be erected at proposed army post near this city, it is reported.

CHICAGO, ILL.—Holabird & Roche, Archs., Monadnock Bldg., are reported to be receiving bids for store and office building, to be erected at 138-144 State St., for Stumer, Eckstein & Rosenthal. Building will be 14 stories, 100 × 120 ft., built of steel, fireproof construction, composition roof, and will cost $1,000,000.

Jenney & Mundie, Archs., 171 La Salle St., will receive bids soon, it is said for a 2-story fireproof addition, 88 × 203 ft., to the National Life building, at 159 La Salle St. Cost, probably $150,000.

These architects said to also have prepared plans for depots and power houses to be erected for the Southern Indiana Railroad, Grand Central Station, Chicago. Total cost of work will be about $500,000.

CHICAGO, ILL.—Wm. G. Krieg, Arch., 84 Washington St., is reported receiving bids for a $75,000 apartment house to be erected at North Clark St. and Wilson Ave.

Local paper states that J. T. Fortin, Arch., New Era Bldg., Harrison St. and Blue Island Ave., is preparing plans for a clubhouse to be built at Ashland Boulevard and Polk St. for Le Monument National Des Canadians Francais de Chicago. French renaissance style, three stories, 100 × 135 ft., with facade of Bedford stone, and composition roof on steel trusses. Cost, $100,000.

Bids are asked until Dec. 2, noon, by Board of Education for erecting school building at 50th and Congress Sts. Three stories and basement, brick, steel and stone, fireproof. Cost, $150,000.

D. E. Postle, Arch., 204 Dearborn St., is receiving bids for $75,000 church building, to be erected at Jackson Boulevard and 46th Ave., for Calvary Presbyterian church.

CHICAGO, ILL.—Secretary of the Navy Morton has announced that site for proposed naval training station will be located on Lake Bluff, 32 miles north of Chicago, on Lake Michigan. Capt. W. H. Reeder, U. S. N., is Pres. of the Comn. Congress has appropriated $250,000 for purchase of the site.

CHICAGO, ILL.—Nimmons & Fellows, 204 Dearborn St., are reported to have been commissioned by Sears, Roebuck & Co., Fulton and Desplaines Sts., to prepare plans for a small city, to be located along tracks of the Chicago Transfer Co., extending from Kedzie Ave. to South Central Park Ave. and Harvard St.; the site includes eight full blocks. The main building will be 320 × 436 ft., eight stories high, of mill construction, with two adjoining buildings, each to be 114 × 670 ft. and three stories high. A power plant will be erected at Homan Ave. Clubhouse, gymnasium and cottages will be built. Estimated cost is $2,000,000. Albert H. Loeb is Secy. of the firm of Sears, Roebuck & Co. If project is approved by Council contracts will be let immediately.

DEKALB, ILL.—Bids are asked until Jan. 4, for construction, complete, of a postoffice here. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C. (Advertised, Engineering News.)

OTTAWA, ILL.—Bids were received on Nov. 21 for constructing post office here, as follows: Winchester & Cullen, Janesville, Wis., $59,875; Saunders Bros. Mfg. Co., Ottawa, Ill., $52,998; J. W. Miller, St. Paul, Minn., $52,940; Charles W. Gindele Co., Chicago, Ill., $48,500; Newman & Hoy, St. Paul, Minn., $49,646; C. E. Carson, Chicago, Ill., $58,887.

PLATTEVILLE, WIS.—Legislature will be asked to appropriate $100,000 for rebuilding Platteville Normal School.

BARABOO, WIS.—County Board has decided to erect a $100,000 court house.

CLINTON, IA.—John Morrell & Son, Archs., will receive bids about Jan. 1 for a $45,000 building for the Y. M. C. A.

AMES, IA.—Willis Proudfoot, Arch., Des Moines, Ia., is preparing plans for $50,000 engineering building at Iowa State College here.

FAULKTON, S. D.—Bids are asked until 2 p. m., Dec. 21, by W. P. Faulkner, County Audr., for erecting complete a court-house. W. R. Parsons & Son Co., Des Moines, Ia., are Archs.

OMAHA, NEB.—Methodist churches in Nebraska will raise $75,000 for a hospital to be erected in this city.

ST. LOUIS, MO.—Mauran, Russell & Garden, Archs., 721 Olive St., will receive figures for 3-story Smith Academy for Washington University. It will cost $150,000.

KANSAS CITY, MO.—The Commercial Club will undertake to raise funds for an armory for the Third Regiment. Estimated cost $200,000 to $300,000. L. M. Miller is Pres. Club.

DALLAS, TEX.—Plans and specifications will be received until Dec. 15 for the erection of exposition building to have 60,000 ft. of floor space and auditorium with a seating capacity of 2,000 people. Address Mr. Keating, Pres. State Fair of Texas.

SAN ANTONIO, TEX.—Bids are asked until Dec. 14 by Robert R. Stevens, Q. M., for the construction of brick post exchange and gymnasium building, including installation of plumbing and gymnastic apparatus, at Fort McIntosh.

MONTROSE, COLO.—Bids are asked until Dec. 31 for constructing frame building for U. S. Reclamation Service. E. A. Hitchcock, Secy., Dept. Interior, Washington, D. C. (Advertised, Engineering News.)

PORTLAND, ORE.—Charles Sweeny, of Spokane, Wash., will erect an 8-story steel and brick building at Seventh and Morrison Sts.

PORTLAND, ORE.—Portland Lodge, B. P. O. Elks, will erect a 4-story building, to cost $75,000.

SANTA CLARA, CAL.—Bids for $50,000 of bonds for building a new school-house will be received Jan. 9th.

SACRAMENTO, CAL.—Bids are asked until Dec. 12th for $200,000 of bonds; $50,000 will be available for a site for the new high school. It probably will be next March before the selection is made.

BERKELEY, CAL.—The Alumni hall, designed by John Galen Howard, University Arch., will soon be erected. Cost to be about $100,000.

LOS ANGELES, CAL.—State Senator Henry E. Carter will introduce bill calling for an appropriation by the legislature for a building in the north end of Los Angeles for the state supreme court, new appellate court, and a branch of the state library; also to establish a state museum. Proposed cost is $250,000.

TORONTO, ONT.—Plans by A. W. Plene for new $50,000 addition to city hospital have been accepted.

SALT LAKE CITY, UTAH.—The Board of Commissioners will approve the action of the old board in the matter of erecting a county infirmary, it is said. From the general plans of the present board, the buildings will cost about $75,000. Total cost, $100,000.

WATER SUPPLY AND IRRIGATION.

ATTLEBORO, MASS.—Water Commissioners have awarded contract for furnishing about 1,181 tons water pipe for town water supply system to Warren Foundry & Machine Co. for about $27,045.

WAREHAM, MASS.—Formation of a fire district to secure water system for this town is reported under consideration.

PROVIDENCE, R. I.—Council Committee on City Engineer's Department are to take steps to provide for an extension of the high pressure water service and a general addition to the city's water supply.

EAST HARTFORD, CONN.—East Hartford Fire District held meeting Nov. 17 to consider increasing water supply. T. Jarvis Lewis was Clk. of meeting.

SOUTH NORWALK, CONN.—It is expected that plans for filtration plant for this city will be completed early in December. W. H. Clarke, Lawrence, Mass., has been preparing the plans.

NEW YORK, N. Y.—Norton & Dalton, 27 West 140th St., New York, have been awarded contract, at $38,906, for laying 11,000 ft. 20-in., 6,500 ft. 12-in., and 2,000 ft. 6-in. water mains in Queens. Bids were opened Nov. 16. Contracts for laying water mains in Manhattan Borough and Boroughs of Manhattan and the Bronx, bids opened Nov. 16, were let to Burns & Rodgers, 1909 Amsterdam Ave., for $96,345 and $90,240 respectively. Contract for laying water main in Brooklyn Borough was let to I. Harris, Brooklyn, for $43,429.

NORWICH, N. Y.—Norwich Water-Works Co., according to reports, is to have work begun next spring in a 2,000,000-gallon filtration plant to be erected at their reservoir east of the city.

OSWEGO, N. Y.—Council has ordered special election to vote on $200,000 bond issue for securing a water supply from Lake Ontario. According to a recent report of Frank W. Ormsby, Supt. W.-W., this could be done for $200,230. This estimate includes not only taking water supply from the lake, but the practical rebuilding and improvement of entire distributing system of the city.

NEW YORK, N. Y.—The Aqueduct Commission, J. Waldo Smith, Ch. Engr., has been considering building filtration plant at the point where the Croton water will enter into the Jerome Park Reservoir. The filtering of the supply before it enters the reservoir has been recommended by Prof. W. H. Burr.

ASBURY PARK, N. J.—Street sprinkling plant of this city is to be enlarged considerably, according to reports. John L. Coffin is Supt. W.-W.

BLOOMFIELD, N. J.—Great Notch Water Co., represented by A. W. Simpson, Upper Montclair, N. J., as agent, has offered to furnish this city with water at the rate of $49 per million gallons, the minimum amount of water to be taken to be at least 300,000,000 gallons per year.

STANHOPE, N. J.—Town voted Nov. 18 on raising $10,000 of bonds for installing water system. Supply is to be obtained from Rockland Water Co.

NEW CASTLE, DEL.—Council is stated to have adopted a contract with Delaware Water Improvement Co., James M. Seabury, Philadelphia, Pa., Pres., by which the city will be supplied by it with water and electric lights.

McKEESPORT, PA.—Select Council has decided to expend $5,000 for drilling ten additional water wells. T. H. Venner is Supt. W.-W.

ALTOONA, PA.—Providence Hydro-Electric Co. has been chartered for the storage, transportation and furnishing of water for manufacturing and other purposes. The plant will be located at Lloysburg Gap, South Woodbury Township.

CLARKSBURG, W. VA.—The Mayor is to appoint committee to investigate matter of drilling wells for a water supply.

WASHINGTON, D. C.—Bids are asked by Isthmian Canal Commission, J. G. Walker, Chn., until Jan. 10 for furnishing about 39,000 ft. standard wrought-iron pipe, about 1,200 iron pipe couplings, 110 flanged unions, 180 street elbows, bushings, tees, reducing ells, malleable unions, plugs, etc.

PENSACOLA, FLA.—Alderman McHugh, according to reports, has introduced an ordinance in Council to grant a franchise to new water-works company which proposes to enter this city.

BROOKSIDE, ALA.—Water-works system to be installed here, according to reports.

MONTGOMERY, ALA.—Bids are asked until Dec. 19 for furnishing high duty pumping engine. R. S. Williams, Cy. Treas. (Advertised, Engineering News.)

LAFOLLETTE, TENN.—This city, according to report, is to immediately invest from $100,000 to $150,000 for water-works and electric lights. C. M. Glover is interested.

MEMPHIS, TENN.—Artesian Water Commission, W. H. Baeta, Chn., is stated to be considering extension of water meter system.

WINCHESTER, KY.—Winchester Water-Works Co. has been chartered in Dover, Del., to construct water-works here. Capital stock is $100,000 and incorporators are citizens of Winchester.

NEWARK, O.—Advices from this city state that F. F. Maurath, Cy. Audr., has been calling for bids for sale of $300,000 of bonds, recently voted for erecting municipal water-works.

COLUMBUS, O.—It is stated that plans for filtration plant for this city will be ready to submit to State Board of Health this winter, so that contracts can be let next March. At a recent election $1,200,000 of bonds was voted for filtration purposes.

ALLIANCE, O.—O. W. Pfouts, Cy. Engr., has presented plans and estimates to council on matter of enlarging and improving city water-works by the well system.

TOLEDO, O.—Charles L. Parmalee, New York City, has been appointed consulting engineer in charge of the construction of the new city filtration plant. F. I. Consaul, Cy. Engr., will have charge of the detail work. Selection of site for the plant is now being considered. It is stated that the filtration plant will be modelled after the one at Little Falls, N. Y.

MUNCIE, IND.—Council, according to reports, is negotiating with Chicago firms for the installation of water-works.

UNION, MICH.—The Council is stated to be considering matter of operating municipal water-works and electric light plant by water power.

MUSCATINE, IA.—Contract involving expenditure of about $30,000 for furnishing pipe for new water-works system of this city, has been let to Deeming & Co., Birmingham, Ala.

GRAND RAPIDS, MICH.—Contract for ten stokers at city pumping station has been let to Chicago Pneumatic Tool Co.

PARIS, ILL.—Board Local Improvements awarded contract for laying water mains in new Commercial Club addition to Morrissey & Porter for $4,000.

LEE, ILL.—Contract for installing water-works for this village has been let to National Construction Co., South Bend, Ind., for about $3,000.

CHICAGO, ILL.—Bids are asked by Department Public Works until Dec. 13 for constructing an addition to 68th St. pumping station. F. W. Blocki, Comr. Pub. Wks.

MANITOWOC, WIS.—City is desirous of purchasing local water-works, and it is stated that commission will be appointed to appraise the plant.

ONALASKA, WIS.—Bids are asked until Dec. 13 for constructing 8-in. artesian well. B. F. Collins, Cy. Clk.

LA CROSSE, WIS.—Council will, it is stated, soon take up installation of a filtration plant.

MADRID, IA.—Bids are asked by C. S. Adams, Town Clk., until Dec. 5, for a well and water supply.

RED WING, MINN.—Local water-works reservoir containing 1,000,000 gallons is reported to have given way.

DEADWOOD, S. DAK.—Bids are asked by Roy Sharpe, Cy. Audr., until Dec. 12 for improvement and extension of city water-works. Estimated cost of work is $140,000 and involves construction of intake supply reservoir on Elk Creek, embracing about one acre of grubbing and clearing, 2,000 cu. yds. earth excavation and 650 cu. yds. of earth embankment, together with outlets, valves and appurtenances; construction of a conduit line composed of the following quantities: 21,597 ft. of 15-in, 15,900 ft. of 10-in., 2,280 ft. of 8-in. vitrified pipe; 10,028 ft. of 14-in., 2,640 ft. of 14-in., 1,267 ft. of 10-in., 2,875 ft. of 8-in. cast-iron pipe; 1,275 ft. of tunnels, together with all valves and appurtenances; construction of a distributing reservoir having a capacity of 1,400,000 gallons, and involving the following quantities: 406 cu. yds. concrete, 10,815 cu. yds. rock excavation, 1,107 cu. yds. earth and loose rock excavation, together with all outlets, intakes, valves and appurtenances; laying of a cast-iron main connecting distributing reservoir with end of present city system, involving the laying of 2,800 ft. of 10-in. cast-iron pipe, together with all specials, valves and appurtenances. A. D. Wilson, Cy. Engr.; Edward McDonald, Mayor.

VALE, S. DAK.—Arrangements are about completed, it is stated, for the construction of an irrigation system in the Black Hills County on the Belle Fourche River. Charles Wilson and George Maas, of Vale, and P. J. Ervin, Douglas, Wyo., are interested.

LISBON, S. DAK.—We are informed that contract was let Nov. 21 to Phil. Eyer, at $675, for sinking new artesian well for this city.

GRAND FORKS, N. DAK.—Bids are asked by City Council until Dec. 5 for constructing 10-in. water main in portion of Kittson Ave.

WHITEFISH, MONT.—Spokane, Wash., capitalists are considering installation of water-works and electric light plant for this city. George Nixon, E. E., Spokane, has been going over the ground.

DE QUEEN, ARK.—Resolution has been passed expressing desire of Council to grant franchise for installing water-works for the town.

GLENWOOD SPRINGS, COLO.—Special election is to be held to vote on extending franchise of Glenwood Light & Water Co.

CORTEZ, COLO.—Montezuma Valley Irrigation District has voted to bond itself for $560,000 for the construction of its irrigation system.

AUSTIN, TEX.—Yturria Land & Irrigation Co., of Fordyce, Hidalgo County, has been chartered with $60,000 capital. George Moore and Uriah Lott, Brownsville, Tex., are interested.

TEMPLE, TEX.—City budget for coming year is reported to contain item of $40,000 to provide this place with water.

NACOGDOCHES, TEX.—City has voted to issue $50,000 of water-works bonds, and it is stated that as soon as these are sold, work will be commenced in putting in system.

FORT WORTH, TEX.—Water Committee North Fort Worth has been considering proposition of Louis Blank for constructing water system for that city. His offer proposes the construction of plant and digging of wells, etc.; the city to lay the mains.

DENVER, COLO.—San Luis Valley Land, Irrigation & Power Co. has been incorporated with $1,000,000 capital, and proposes to build a $100,000 reservoir near La Jara in the near future. The reservoir will be fed from the Alamosa River and will irrigate 100,000 acres of land in that section, which it is proposed to colonize. S. S. Bernard is Pres. and John A. Braden, Secy., both of Colorado Springs, Colo.

COLORADO SPRINGS, COLO.—Special election which was to have been held Nov. 22 to vote on purchase of $300,000 water system from H. I. Reid, has been indefinitely postponed.

FLORENCE, COLO.—Plans of the Columbine Reservoir & Investment Co., John A. Milner, Gen. Mgr., which proposes to cultivate about 50,000 acres of land between Pueblo and this city, have been approved by U. S. Government, and it is stated that construction of reservoirs and ditches will be at once taken up.

FORT COLLINS, COLO.—Advices from this city state that Pleasant Valley & Lake Canal Co., has under consideration various improvements, including the increase in capacity of through line canal by enlarging the ditch and constructing two reservoirs that combined will hold 350,000,000 cu. ft. of water, and the construction of a new ditch running parallel with the old ditch, but on higher ground. The estimated cost of improvements is about $75,000.

DENVER, COLO.—A. A. Edwards, Pres. Water Supply & Storage Co., Fort Collins, Colo., has made filings in the State Engineer's office for its ditch, work on which is reported under way. The ditch is to be 17 miles long and the total cost will be $200,000.

FORT WRIGHT, WASH.—Following bids were received Nov. 16 by Capt. E. A. Shuttleworth, Q. M., U. S. A., for constructing reservoirs, etc.; (1) 500,000-gallon stone reservoir, (2) 2,000 ft. 6-in. water mains, (3) brick pump house, (4) motor, triplex pump and power lines, (5) motor and pump only, f. o. b. Fort Wright: Naylor & Nortin, Lewiston, Idaho, (1) $19,498, (2) [illegible], (3) $1,290, (4) $8,380; Nixon & Kimmel, Spokane, [illegible] (4) $7,949; Kilbourne & Clark Co., Seattle, Wash., [illegible] $2,343; Burrell Construction Co., Seattle, Wash., (1) [illegible], (2) $2,827, (3) $3,119, (4) $8,000; Walter Bros. & [illegible]dall, Seattle, Wash., (1) $46,694, (2) $4,500, (3) [illegible], (4) $6,500.

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TACOMA, WASH.—Council is stated to have [illegible]ded to recommend adoption of deep well system of wa[illegible] supply for the city, the plant to be constructed along [illegible] and specifications prepared by L. F. McConihe. [illegible] Commissioner of Public Works has been instructed [illegible] prepare the necessary plans and specifications, along w[illegible] estimate of cost of establishing such a system to b[illegible] stated on the air-lift plan of raising water, the wh[illegible] to be based on Mr. McConihe's plans. According to re[illegible]ports the project would call for expenditure [illegible] about $400,000.

COLFAX, WASH.—Council has awarded con[illegible] for pipe to be used in bringing water from Silv[illegible] Creek springs to the Washington Pipe & Foundry Co., [illegible]oma, Wash., for $27,349.

McMINNVILLE, ORE.—Mayor E. Northrup w[illegible] that city has voted against issuing bonds for a cha[illegible] the water plant and nothing will be done at present.

FULLERTON, CAL.—Fullerton Municipal Imp[illegible]ment Co. may be organized to purchase water-work[illegible] to erect and maintain a gas plant. Harry Clark ma[illegible] interested.

OAKLAND, CAL.—Special Water Committee, [illegible]arren Olney, Chn., has reported to the Council in rega[illegible] to securing a water supply for the city. A postal ca[illegible] ballot will be taken to secure the opinion of the citizen[illegible] the two propositions favored by the committee. T[illegible] two propositions are for the purchase of the water ri[illegible] and plant which the Bay Cities Water Co. proposes t[illegible]stall for a total cost of $5,750,000, and for the securin[illegible] underground supply at a total cost of $3,500,000. Th[illegible] latter plan calls for the purchase of land, boring of w[illegible] installation of pumping plant, reservoirs, etc., for $1[illegible],000 and construction of distributing system for $2,000,000.

POMONA, CAL.—Bids are asked until Dec. 5 for purchase of 2,000 ft. of 4-in., 5,000 ft. of 3-in., 4,000 ft. of 2-in., 2,000 ft. of 1-in., and 2,000 ft. of ¾-in. standard iron screw pipe, dipped; also Crane's garden valves, or any other make equally as good. A. H. Harris, Cy. Clk.

POINT RICHMOND, CAL.—West San Pablo Land & Water Co. has been organized to develop a water system. A 10-in. well is now being drilled and it is estimated that 500,000 gals. of water will be pumped every 24 hours. R. S. Brown is Pres. and W. H. Hellings, Mgr.

REDLANDS, CAL.—Bear Valley Water Co., according to reports, contemplates construction of new dam in Bear Valley. A. G. Hubbard, Redlands, may be able to give information.

SAN BERNARDINO, CAL.—Contract for covers for city reservoirs has been let to G. M. Fleury for $4,340.

SAN DIEGO, CAL.—Council has adopted recommendation of finance committee that $30,000 be appropriated for establishment of a pumping plant on the Septon lands in Mission Valley.

SANTA BARBARA, CAL.—Water Commissioners are considering building three-mile pipe line to connect new city tunnel with the reservoir.

SAN FRANCISCO, CAL.—Loon Lake Water & Power Co., has been incorporated with $200,000 capital. Stanley Forbes and Warren Gregory are interested.

Searles Mining & Water Co., has been incorporated with $500,000 capital and headquarters in this city. A. Anderson and G. F. Dyer are interested.

WHEATLAND, CAL.—R. N. Murphy, Town Clk., is taking bids until Dec. 5 for sale of $20,000 municipal water bonds.

SALT LAKE CITY, UTAH.—Special Water Committee has reported to Council on plan for quadrupling water supply of city. Cost of improvement is set at about $1,000,000. Geo. W. Snow is Cy. Engr. A special bond election has been called for Jan. 3.

SUSSEX, N. B.—Town Council is considering installation of pumping station.

PAYETTE, IDAHO.—Council is stated to have let contract to the Pacific Coast Pipe Co., Ballard, Wash., for laying the mains and putting in the hydrants for the city water-works at $18,774.

HANTSPORT, N. S.—This place is to apply at next session of legislature for authority to borrow money for establishing water-works.

PETERBORO, ONT.—Work is to be started at once, according to reports, on the construction of a new concrete dam in Otonaber River to cost $80,000, and the laying of a new auxiliary 12-in. main.

SEWERAGE.

SALEM, MASS.—Patrick McGovern, of Boston, was awarded contract for Section 2 of the Salem North River trunk sewer, at $26,176. Other bidders were: Daniel J. Sheehan, Lynn, $21,114.10; Manufacturers' Construction Co., Wilmington, $28,103; John F. Lynch, Boston, $28,733; Metropolitan Constructing Co., Boston, $29,177; Jones & Meehan, Boston, $30,856; Coleman Bros., Everett, $31,041; Peter W. Hill, Boston, $31,376; Falvey & Kelly, Somerville, $34,875; Frank L. Allen, Boston, $39,285. The award was made to McGovern, on the ground that the bid of Sheehan, the lowest bidder, did not conform to the specifications. Work will begin next spring.

WATERBURY, CONN.—Commission has been appointed to condemn land for proposed sewage disposal grounds; it includes John K. Beach and Albert B. Hill, of New Haven, and Edmund P. Day, of Seymour. Two suits, of $100,000 each, are pending against city for alleged pollution of Naugatuck River.

NEW YORK, N. Y.—Bids are asked until Dec. 7, 3 p. m., by John F. Ahearn, Boro. Pres., for rebuilding and repairing sewer in Third Ave., between 22d and 23d Sts.

BROOKLYN, N. Y.—Flatbush Local Board has adopted resolution for construction of sewers in several streets in Flatbush district. Main sewer in Lincoln Road will cost $3,900. Estimated cost of others is $395,000.

DUNKIRK, N. Y.—A sewer system, to cost $150,000, probably will be built next spring, to drain the entire Fourth and First Wards. Jas. P. Morrissey is Cy. Engr.

BALLSTON, N. Y.—Village is reported to have adopted plans for sewer system to cost $32,000.

AUBURN, N. Y.—New sewer district will be created, we are informed by E. H. Herrling, Cy. Clk. This district will take in a large watershed, necessitating the construction of probably more than a mile of trunk and smaller sewers and one or two septic tanks. Bids for this work will be advertised about Feb. 1. Maps, plans and specifications are being prepared by J. Walter Ackerman, Cy. Engr., with George S. Pierson, of Kalamazoo, Mich., as Consult. Engr.

NEW YORK, N. Y.—Bids were received on Nov. 22 by Louis F. Haffen, Boro. Pres., for constructing several sewers in Bronx Borough. Burns & Rodgers, 1909 Amsterdam Ave., was awarded contract for Bryant Ave. sewer at $2,546; M. Corbett & Co., 3480 Third Ave., Marmion Ave. sewer, at $4,510; Geo. M. Dunn, 718 East 130th St., Lebanon St. sewer, at $3,283; M. Corbett & Co., Cottage Pl. sewer, at $2,297; Thos. Murray, 1871 Jerome Ave., basins, etc., $1,110; Briggs & McLaughlin, 19 West 130th St., $1,253; J. S. Rogers, 980 Trinity Ave., basins, etc., $2,098.

SUMMIT, N. J.—Bids are asked until Dec. 6, 8 p. m., for construction of several sewers. Chester C. Henry, Cy. Clk.

WILKESBARRE, PA.—At recent election it was voted to issue $130,500 of bonds for construction of sewers.

NORTH BRADDOCK, PA.—Bids are asked until noon, Dec. 5, for building 600 ft. of terra-cotta pipe sewer in Cliff St. C. A. Stewart, Boro. Engr.

HARRISBURG, PA.—Question of issuing various bonds will be voted upon probably at February election, as the Joint Finance Committee of Council is stated to have reported favorably the bill providing for a loan of $100,000 for new sewers, $100,000 for paving street intersections and $200,000 for a new bridge.

ABERDEEN, MISS.—Bids will be received soon for the construction of sewers. Marcus A. Pope is Cy. Engr.

FITZGERALD, GA.—City may issue $25,000 of bonds for the construction of sewer system, and $15,000 for extending electric light plant and water-works.

LOUISVILLE, KY.—South Louisville Drainage Club has petitioned Mayor Grainger for new sewers in that portion of the city. It is reported that stock in gas company owned by city will be sold to raise funds, aggregating $1,000,000.

GRIFFIN, GA.—Contract for constructing 90,000 lin. ft. sewers for this city has been let to J. H. McKinzie's Sons, Augusta, Ga., for $26,443.

LOUISVILLE, KY.—Immediate steps will be taken toward relieving certain districts that are most in need of new sewers and better drainage. The Mayor will consult with the Board of Public Works and J. B. F. Breed, Cy. Engr., with regard to the adoption of some plan that will serve temporarily, it is said.

BARBERTON, O.—Two storm sewer districts have been mapped out, the estimated cost of which will be $10,000.

CINCINNATI, O.—Bids are asked by Geo. F. Holmes, Cy. Clk., until Dec. 6 for constructing sewers in several streets.

SOUTH BROOKLYN, O.—Bids are asked until Dec. 19 for purchase of $33,797 of bonds for constructing sanitary and storm water sewers. W. T. Pupikofer is Village Clk.

TOLEDO, O.—Bids are asked until Dec. 2 by Board Public Service for constructing sewer No. 938, in portion of Emmet St. and Collingwood Ave., in Sewer Dist. No. 16. Harry S. Jones is Secy.

MIDDLETOWN, O.—John Arpp was awarded contract for Curtis Ave. sewer at $1,867.

DIXON, ILL.—J. F. Edwards, Mayor, informs us that, owing to a decision of the Supreme Court, the contract for constructing Crawford Ave. sewer was not awarded. Bids received on Nov. 26.

KNOXVILLE, IA.—J. W. Turner, Des Moines, has the contract for the construction of 10,000 ft. of sewer; also septic tanks and filter beds. H. Shivvers is Cy. Clk.; A. Marston, Ames, Ia., is Engr.

ST. PAUL, MINN.—$50,000 appropriation for 1905 has been approved. This provides for construction of Atwater St. sewer at possible cost of $25,000; Trout Brook extension, $10,000; Goff Ave. and Winifred St. repairs, $3,000. City Engineer states that following sewers are needed, for which no appropriation has been considered: Thomas St. extension from Grotto St. west, $20,000; South St. system to Phalen Creek, $40,000; Como Park and Warrendale, $25,000; Jefferson and Hamline Aves. system, $50,000; Aldine St. system, $25,000; Robie St. extension, $25,000; Terry St. system, $50,000; Trout Brook at Hamm's brewery, $10,000; Otto Ave. and West Seventh St., $10,000; Ohio St. extension, $15,000; Weide St. extension, north of Maryland St., $3,000; St. Anthony Park system, $200,000.

LE SUEUR, MINN.—T. G. Mahler, Cy. Clk., informs us that all bids received on Nov. 25 for sewer pipe were rejected.

KANSAS CITY, MO.—Ordinance has been introduced in both branches of City Council granting franchise to Lewis & Kitchen to operate sewers as a public service corporation. Sewer system would be constructed in southeastern part of city. After 15 years the system would become municipal property.

MARYVILLE, MO.—City has voted in favor of issuing $25,000 of bonds to build sewers. Nothing will be done until spring. George Custer is Cy. Engr.

PRESCOTT, ARIZ.—Lines & Rockmark have been let contract for sewer system extension at $1,286.

BOISE, IDAHO.—Proposed new sewer system will be 30,810 ft. long and cost about $158,858.

SALT LAKE CITY, UTAH.—Council Water Committee has submitted report recommending issuance of $1,000,000 of bonds; $850,000 of this amount would be for water supply increase and $150,000 for new sewers. Election may be held on Dec. 20 to vote upon this question. It is proposed also to erect a $40,000 power station at mouth of Parley's Canyon and to establish a pumping station near Spring Creek.

BRANTFORD, ONT.—City will vote upon question of issuing $62,000 for a new sewer system.

GARBAGE DISPOSAL—STREET CLEANING

NEW YORK, N. Y.—Following bids were received by Board of Health Nov. 23 for removal of night soil, offal and dead animals from (1) Borough of Manhattan, (2) Borough of Bronx, (3) Richmond Borough, (4) Queens Borough, and (5) Borough of Brooklyn, for a term of five years: M. J. White, Staten Island, (1) $121,225, (2) $45,575, (3) $26,000; Standard Mfg. Co., (1) $90,000, (2) $55,000, (3) $32,000, (4) $74,000, (5) $39,000; McKeever Co., (4) $81,000, (5) $75,000.

BALTIMORE, MD.—Mayor Timanus has signed ordinance authorizing additional garbage contract until 1912.

CLEVELAND, O.—Mayor Tom Johnson and President Springborn of Bd. Pub. Service, are reported to be negotiating with M. F. Bramley, Vice-Pres. Newburg Reduction Co., for sale of its plant to the city.

CHICAGO, ILL.—Council Finance Committee is stated to have ordered specifications and bids will probably be received for the incineration as well as reduction of the city's refuse. The specifications will call for plants with a daily capacity for 1,000 to 1,200 tons.

MUNCIE, IND.—Bids are asked by Common Council until Dec. 12 for constructing a garbage crematory of a capacity sufficient to completely incinerate 49 tons garbage, including not to exceed 10% night soil in 24 hours, at a cost not to exceed 30 cts. for each ton of garbage consumed for labor and fuel; the garbage to be completely incinerated in a sanitary manner. R. G. Hickok is Cy Clk.

MILWAUKEE, WIS.—Proposition is reported to have been received by Council Committee of Public Health from Turner & Co., Chicago, Ill., offering to handle all the city's garbage during the winter for $1 a ton, 75 tons daily, f. o. b. on tracks, or until the health commissioner shall determine otherwise. The committee will, it is stated, report favorably to the Council on the plan.

DES MOINES, IA.—Engle Crematory Co., of Newton, Ia., has asked Council for franchise to maintain a crematory and garbage disposal plant in this city. The company proposes, it is stated, to erect a $50,000 plant.

ST. LOUIS, MO.—Board Public Improvements may present ordinance to Council for establishment of three incinerators within the city limits.

STREETS AND ROADS.

MILFORD, MASS.—Highway Commissioners awarded contract for building new section of state highway here to Snow & Farrington, of Wrentham, for $4,585.

NEWPORT, R. I.—Another section of Thames St. will be widened this winter.

BROOKLYN, N. Y.—Bids are asked by Martin W. Littleton, Boro. Pres., until Dec. 7 for regulating and paving with asphalt portions of numerous streets, and with macadam portions of Bay 16th and 17th Sts.; engineer's estimate, 39,980 sq. yds. asphalt, 12,350 sq. yds. macadam, 9,089 lin. ft. new curb set in concrete, 4,480 sq. yds. old stone to be relaid, 4,580 cu. yds. concrete, etc.

The Aldermen's Finance Committee is stated to have reported in favor of using $300,000 corporate stock for repaving Atlantic Ave.

NORTH HEMPSTEAD (L. I.), N. Y.—The citizens voted to appropriate $12,000 for the repair and improvement of Middle Neck road in Great Neck.

SOMERVILLE, N. J.—We are informed that contract for macadamizing two county roads has been let to Munson & Co., Rockaway, N. J., for a total of $39,023. Bids were opened Nov. 22.

TOMS RIVER, N. J.—Bids are asked by Board of Freeholders of Ocean County until Dec. 12 for building a gravel road in Lacey Township. Plans and specifications may be seen at office of Wm. Segoine, Engr., Point Pleasant, N. J.

VAILSBURGH, N. J.—Bids are asked by Mayor and Council until Dec. 7 for grading West End Ave. and for grading, curbing and laying walks on Crawford St. Plans and specifications can be seen at office of Eugene A. McMurray, Boro. Engr., 22 Clinton St., Newark. Andrew R. Fitzsimons, Boro. Clk.

PITTSBURGH, PA.—R. J. Cunningham, County Controller, will receive estimates on delivering during 1905, 20,000 tons of Ligonier ballast and screenings, and limestone ballast and screenings, bids to be per ton f. o. b. various railroad delivery points in Allegheny County.

UNIONTOWN, PA.—Bids are asked by State Highway Department at Harrisburg until Dec. 15 for constructing 5,280 ft. of road in Stewart Township, and 4,453 ft. of road in North Union Township, in Fayette County.

WASHINGTON, PA.—The Hollam Construction Co. was awarded the contract for paving West Chestnut St. and McCarrell Ave. in West Washington, for about $30,000.

BALTIMORE, MD.—An ordinance was introduced in first branch of Council providing for the paving of streets around court house with wooden blocks.

WHEELING, W. VA.—The first reading of ordinances for paving Jefferson and 32d Sts. have passed the Council.

ATLANTA, GA.—We are informed that contracts for paving Mitchell St. with asphalt and Madison Ave. with granite block have been let to F. E. Artope, Macon, Ga., and W. H. Patterson, Jr., Atlanta, respectively. Bids were opened Nov. 7.

BIRMINGHAM, ALA.—The ordinance providing for the sale of paving bonds has passed third reading in Council, and it is expected final action will be taken early next month. The amount is about $167,000.

CHILLICOTHE, O.—A resolution has been passed authorizing the City Engineer to prepare estimates for paving High St.

CINCINNATI, O.—Linwood Ave. will be paved with bitulithic instead of bituminous macadam, as was previously mentioned.

COLLINWOOD, O.—J. B. Davis & Son, Village Engrs., have been authorized to prepare plans and specifications for paving Collins Ave. with brick.

DAYTON, O.—Bids are asked by Wm. F. Miller, Cy. Clk., until Dec. 2 for paving Wyoming St.

FINDLAY, O.—It is reported that bids will soon be asked for paving Washington St. and Franklin Ave. with brick on rolled stone and sand foundations. John W. S. Riegle is Cy. Engr.

HAMILTON, O.—Contracts for $300,000 of street paving has been awarded to Wm. N. Andrews, City, and Thomas J. Mulligan, of Lima.

NORWOOD, O.—Bids are asked by Board Public Service until Dec. 17 for grading, macadamizing and graveling a portion of Wayland Ave. J. A. Stewart, Cy. Engr., 813 Traction Bldg., Cincinnati; E. R. Edwards, Clk.

WARREN, O.—Plans are under consideration for macadamizing a number of roads in this county.

YOUNGSTOWN, O.—P. W. Hubler, Cy. Clk., announces that Council has decided to construct sidewalks on Wade St.

YOUNGSTOWN, O.—A petition to pave Oakhill Ave. is in circulation and will probably be approved by Council.

BEDFORD, IND.—Bids are asked by County Commissioners until Dec. 5 for constructing gravel or macadamized roads in Bono, Indian Creek, Marion and Spice Valley Townships, in all about 21 miles. Walter G. Owens, County Audr.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

CENTER, IND.—The citizens have voted to construct a brick road here 2,252 ft. in length. Est. cost, $24,425.

INDIANAPOLIS, IND.—Plans are being perfected for improving State Fair grounds. The grounds will be plotted symmetrically and permanent buildings erected. C. A. Wallingford and Louis Hoover have the matter in charge.

MICHIGAN CITY, IND.—It is stated that bids will soon be received for macadamizing two roads, ten miles in length, from Laporte north to State line. Est. cost, $50,000.

WINAMAC, IND.—Bids are asked by Pulaski County Commissioners until Dec. 29 for building the Telephone road, 31,708 ft. in length, and the Winamac and Medaryville road, 31,710 ft. in length. Profile and specifications on file in office of Ellis S. Rees, County Audr.

ESCANABA, MICH.—The city has voted to issue $50,000 street improvement bonds.

STERLING, ILL.—An ordinance to grade, curb and pave on West Fourth St. was passed by City Council. M. E. Wilger is Cy. Clk.

ST. PAUL, MINN.—We are informed that bids will be received by City Clerk until Dec. 1 for reflooring and paving with creosoted blocks Third St. bridge. Approximate quantities are: 1,041 lin. ft. roadway, 134,500 ft. B. M. fir, 3,500 sq. yds. creosote block paving, 700 lin. ft. fence. Plans and specifications in office of Commissioner Public Works. L. W. Rundlett is Cy. Engr.

ST. PAUL, MINN.—A communication from Board Public Works providing for the widening of Sibley St. has been received by City Council. Referred to Committee on Streets.

LAWRENCE, KAN.—Resolutions declaring it necessary to grade, curb and pave on Vermont and Ontario Sts. were adopted by City Council. F. D. Brooks is Cy. Clk.

TOPEKA, KAN.—City Council adopted a resolution for paving of Madison St. with Shawnee County vitrified brick on sand foundation, 40 ft. wide, and curbing with Fort Scott blue sandstone. J. H. Squires is Cy. Clk. Jas. F. McCabe is Cy. Engr.

TOPEKA, KAN.—It is likely that four miles of macadam road will be built in Shawnee County this winter.

WICHITA, KAN.—The National Good Roads Association will construct at least one mile of macadam road near here within a few months.

HELENA, MONT.—We are informed that all bids received for the paving of Main st. with asphalt were rejected and ordered readvertised for ten days. C. W. Helmick is Cy. Engr.

ST. JOSEPH, MO.—County Court has instructed County Surveyor to advertise for bids for construction of about seven miles of macadam road in the vicinity of St. Joseph.

ST. LOUIS, MO.—It is reported that bids will be received Dec. 9 by Board Public Improvement for paving Alice and Lee Aves. and 11th St. with bituminous macadam; Pennsylvania, Kennerly and Sullivan Aves. with brick, and Papin St. with granite.

LITTLE ROCK, ARK.—C. T. Coffman, County Judge, is planning to make extensive improvements, it is reported, upon roads throughout the county and upon streets of this city.

LEADVILLE, COLO.—We are informed that no bids were received Nov. 14 for grading several roads. L. G. Carpenter is State Engr.

PUEBLO, COLO.—It is reported that the county road from Pueblo to cemetery, a distance of little over a mile, will be paved jointly by County Commissioners and River Cemetery Association. Cost, $12,000.

SEATTLE, WASH.—We are informed that bids will be received by C. B. Bagley, Secy. Bd. Pub. Wks., until Dec. 3 for grading and parking of East Queen Anne Driveway and other highways. Est. cost, $23,000.

Bids will also be received Dec. 17 for grading and laying concrete sidewalks on Main St. and other connecting streets and avenues. Est. cost, $83,000. R. H. Thomson, Cy. Engr.

SEATTLE, WASH.—Work on the regrade of Third Ave. will be started at once.

BAKERSFIELD, CAL.—Bids are asked by Board of Supervisors until Dec. 9 for construction of Kern River road.

LOS ANGELES, CAL.—Board Public Works has recommended the construction of an additional sidewalk in Third St. tunnel. Est. cost, $1,540.

OAKLAND, CAL.—Mayor Olney has approved the ordinance appropriating $15,000 for the improvement of Harrison St. boulevard.

SAN FRANCISCO, CAL.—Board Public Works recommend the ordering of the construction of granite curbs and bituminous rock pavement on Parnassus Ave. Referred to Sewer, Street and Park Committee.

SAN FRANCISCO, CAL.—The Supervisors have ordered the paving with asphalt H St., 4,030 ft., at a cost of $35,000. Also the paving of Fourth St., 1,200 ft., with basalt blocks on concrete. Cost, $17,500.

SAN RAFAEL, CAL.—The Southside Improvement Club has passed a resolution requesting the Trustees to secure the macadamizing of Clayton St.

SANTA ANA, CAL.—Bids are asked by Board of Trustees until Dec. 4 for paving West Fourth St. with asphalt. Ed. Tedford, Cy. Clk.

OGDEN, UTAH.—The City Council and County Commissioners propose constructing a macadam road through Beaver Canyon between Weber and Cache Counties, to cost $6,000. Consent from State Legislature must be obtained before action is taken.

WESTMOUNT, QUE.—The Councils have decided to borrow $100,000 for laying permanent sidewalks, to be expended at the rate of $20,000 a year.

VICTORIA, B. C.—City Council has passed a by-law providing for the raising of funds for Bird Cage Walk extension. City Engineer's estimate, $7,687.

MANUFACTURING PLANTS.

ATLANTIC CITY, N. J.—Wm. Willitts has been awarded the contract for an addition to brewery and a new stable for Christian Moerlein Brewing Co. Brick and stone, two stories, 100 × 90 ft.

BURLINGTON, N. J.—The McClintick-Marshall Construction Co., Pottstown, Pa., has been awarded the contract for a 2-story steel foundry for Thomas Devlin & Co.

MONONGAHELA, PA.—It is reported that the Ligget Spring & Axle Works will expend $80,000 in enlarging its plant at Axleton, near here.

EMPORIUM, PA.—The Calder Brick & Clay Co., Cameron, Pa., contemplate the erection and equipment of a small machine shop in connection with their brick plant near this place.

PHILADELPHIA, PA.—William Steele & Sons have secured the contract for a factory, boiler and engine house on 37th St. for Philadelphia Rubber Works. The buildings will be three stories, 132 × 60 ft., with rear wings 17 and 27 ft. The construction will be of stone, brick and steel, with a tower fire escape. Cost, $50,000.

John R. Wiggins & Co., Heed Bldg., have been awarded contract for erection of a $50,000 5-story arc light factory of slow-burning mill construction type, 144 × 82 ft., for Philadelphia Electric Light Co., on Pennsylvania Ave.

John W. Gill & Co., Heed Bldg., have been awarded contract for alterations and additions to a factory at 11th and Hamilton Sts., for H. B. Underwood & Co.

Wm. Steele & Sons, 16th and Arch Sts., have been awarded contract for an addition to foundry at Second and Glenwood Aves., for Schanni & Uhlinger.

Walter F. Price, Arch., 731 Walnut St., Philadelphia, is preparing plans for a 2 and 3-story manufacturing plant for Philadelphia Quartz Co.

McKEES ROCKS, PA.—John A. McGhee, Shamokin, Pa., will erect can factory here, 100 × 110 ft. Site has been purchased.

PITTSBURG, PA.—C. C. Kohue, 105 Hazlewood Ave., City, was awarded contract for erecting brewery building for Hazlewood Brewing Co. Cost, $200,000.

BALTIMORE, MD.—Jesse L. Wilson, 310 North Holliday St., has commissioned Henry J. Tinley, Arch., 421 St. Paul St., to prepare plans and specifications for pattern-making plant to be located on Hillen St., near Front St. Structure to be two stories with basement, 37 × 70 ft., brick with stone trimmings, concrete foundation, steel beams, cast-iron columns, slag roofing, galvanized iron skylight glazed with wireglass, gas fixtures, sanitary plumbing.

BALTIMORE, MD.—The Miller Fertilizer Co., 216 North Gay St., has awarded contract to McIver & Piel, builders, Builders' Exchange Bldg., 2 East Lexington St., for construction of building to be located at its plant in Canton, after plans and specifications by F. E. & H. R. Davis, Archs., 220 St. Paul St. Structure to be one, two and three stories, 94 × 113 ft., concrete foundation, frame construction, slag roofing.

BALTIMORE, MD.—J. H. R. Asendorf, 109 West Mulberry St., has awarded contract to C. S. M. Williamson, builder, 18 East Lexington St., for construction of box factory to be located at Russell and Stockholm Sts., after plans and specifications by Thomas C. Kennedy, Arch., 331 North Charles St. Structure to be one story, 40 × 100 ft., with boiler house one story high, 17 × 46 ft., brick, concrete foundation, mill construction, slag roofing, metal frames and sashes glazed with wireglass, electric wiring and fixtures, sanitary plumbing, steam heating system.

BALTIMORE, MD.—It is reported that fire destroyed the paint factory of H. R. Davis Co. Loss, about $70,000.

RICHMOND, VA.—A new factory for the manufacture of bottles will be erected here. Percy S. Bosher can give information.

ROANOKE, VA.—The contract for new machine shop of Norfolk & Western Railway, which will be located in the West End, has been let to J. J. Garry, City. The building will be 59 × 199 ft., constructed of brick with slate roofing, and cost $16,500. The boiler room is to be built in addition, and will also be of brick and is to be 35 × 65 ft.

FREDERICKSBURG, VA.—Timberlake & Tyler will erect a paper box factory here.

ELKINS, W. VA.—The Ohio Pail Co. has purchased a tract of timber and will erect a lumber mill in the spring.

WILMINGTON, N. C.—The Boney & Harper Milling Co. will increase the capacity of its mill from 3,000 to 4,000 bushels of corn per day.

ROCKFORD, N. C.—A site has been purchased for the erection of a cotton mill near here. J. D. Hamlin can give information.

WILMINGTON, N. C.—The Weed Distilling Mfg. Co. has been organized to manufacture paving blocks. Frederick Pope, of Fayetteville, can inform.

GASTONIA, N. C.—The Gray Mfg. Co. has been incorporated with $150,000 cap. stock for the purpose of building cotton factory planned for recently by Geo. A. Gray. Mr. Gray will make arrangements for the erection of buildings and the installation of machinery for manufacturing print cloths. The equipment will include 10,000 ring spindles and 350 looms, together with steam power plant and other apparatus.

RALEIGH, N. C.—The Caraleigh Cotton Mills here are arranging for the installment of a dyeing plant.

LEXINGTON, N. C.—3,000 spindles will be added at once to the equipment of Nokomis Cotton Mills here. Cost, $20,000.

SALEM-WINSTON, N. C.—W. S. Seivers and others have incorporated the Wachovia Knitting Co. with $50,000 cap. stock. A plant will be erected at once.

CORNELIUS, N. C.—Through the efforts of E. T. Strough $25,000 has been subscribed for the establishment of a hosiery mill. Work will begin at once.

SUMTER, S. C.—The Sumter Iron & Machine Works have been chartered here by R. I. Manning and G. D. Shore.

LAURENS, S. C.—A two-story brick factory building will be erected here. Thomas K. Hudgens can inform.

WESTMINSTER, S. C.—W. P. Anderson has organized a $20,000 company to establish a knitting mill here.

GEORGETOWN, S. C.—D. H. Green and H. B. Springs are organized the Carolina Paper Pulp Co., capital $250,-000, to build a pulp mill here. The waste timber from lumber mills will be utilized by company and converted into pulp. It is expected that work on plant will begin by Jan. 1.

TAYLORS, S. C.—Alfred Taylor & Son expect to double the capacity of their cotton gin next year and want plans and estimates on ginning machinery.

AUGUSTA, GA.—T. B. Hitchcock, Columbia, S. C., is preparing plans for a mill to be built here. It is reported that the mill will be equipped with a steam power plant and will operate 720 looms and 25,000 spindles.

BIRMINGHAM, ALA.—The Bessemer Soil Pipe Plant will be enlarged at a cost of $40,000. Wm. Ivy, St. Louis, Mo., is Pres.

COLUMBIA, ALA.—A. D. Woods will erect a cotton mill two miles from this place.

MONTGOMERY, ALA.—The Nixon Stave & Lumber Co., capital $50,000, has been chartered. The incorporators are Robt. Nixon and J. L. Nixon, of Montgomery, and J. R. Nixon, of New Orleans.

MONTGOMERY, ALA.—D. P. West contemplates the erection of an ice factory in this city.

ABERDEEN, MISS.—The Mississippi Oil Co. will double the capacity of its oil mill here.

GENEVA, ALA.—A $50,000 cotton mill will be established here by Geneva Industrial & Improvement Association. Address the Secretary.

JACKSON, MISS.—The Edward Hines Lumber Co. of Chicago has purchased pine timber lands in this section, and is preparing to erect several sawmills, having a capacity of about 1,000,000 ft. per day.

LAKE CHARLES, LA.—The North American Land & Timber Co. will make extensive improvements to their property in this section, which includes the erection of a rice mill. A. V. Eastman is Mgr. The company owns 700,000 acres of land.

NAPOLEONVILLE, LA.—The Napoleonville Ice Co. contemplates the erection of a new 12-ton ice plant.

TRENTON, TENN.—The Southern Stave Mills have been incorporated with $10,000 capital by W. H. Wade, C. R. Wade, Walter Howen, J. C. Elder and others.

NASHVILLE, TENN.—Jones & Strickland, of Atlanta, Ga., have purchased property in this city and will erect a phosphate mixing plant. The plant will cover several acres of land; the main building will be a two-story brick, costing about $15,000.

LOUISVILLE, KY.—The Louisville Plate Ice Co. will enlarge its plant. A brick addition will be erected at a cost of $25,000.

VERSAILLES, KY.—The Thompson Minary Co., capital $9,000, has been incorporated here to operate a planing mill and lumber yard.

SCOTTSVILLE, KY.—A $5,000 canning factory will be erected here. Chas. Speakman, owner and manager.

YOUNGSTOWN, O.—The Weham P. Pollock Co. has plans for an addition to its plate construction plant, 192 × 120 ft. Company will construct building itself.

EVANSVILLE, IND.—A contract has been let for construction of new addition to bottling department of F. C. Cook's brewing plant.

MONTICELLO, IND.—The Tippecanoe Smokeless Powder Co. has incorporated with a capital stock of $100,000 with a view of constructing mills, magazines, etc., for the manufacture of powder. J. C. Mitchell, J. B. Van Buskirk and T. B. Palmer are directors.

INDIANAPOLIS, IND.—The Indianapolis Cement Product Co. has incorporated with a capital stock of $6,000. The company will erect a mill. Fred. W. Day, H. W. Beazel and E. B. Swift are directors.

NEW CASTLE, IND.—The Chicago Steel Co.'s plant was destroyed by fire. Loss, $100,000. It is understood that the plant will be rebuilt.

LAFAYETTE, IND.—The three-story factory building of Foster Furniture Co. was destroyed by fire. Loss, $60,000.

MUNCIE, IND.—The Wheat Heart Mfg. Co., of Springfield, O., has secured a site and will build a factory in this city. J. H. Curry is a stockholder.

PORTLAND, IND.—Armfield & Cortwright have secured the contract to erect a $50,000 stone crushing plant in this city.

EVANSVILLE, IND.—The Evansville Veneer Co. has awarded the contract to a member of the Evansville Building Association for construction of a veneer plant on Belt road. M. R. Talge is Gen. Mgr.

MITCHELL, IND.—The Lehigh Portland Cement Co. will erect a cement mill near this city, with a capacity of 3,000 barrels daily.

ROCKPORT, IND.—The Rockport Mfg. Co. has incorporated for the purpose of building and operating a handle and wooden ware factory and manufacturing lumber. J. A. Meeke, E. G. Meeks and Frank Sincaird, incorporators.

SOUTH WHITLEY, IND.—The South Whitley Milling Co. has incorporated for the purpose of building grist mills, elevators, etc. Monroe W. Webster, J. S. Koontz and Frank H. Forest, incorporators.

REMINGTON, IND.—The elevator belonging to McCray, Morrison & Co., destroyed by fire recently, will be rebuilt at once.

EVANSVILLE, IND.—The 3-story elevator building belonging to W. H. Small & Co., which recently collapsed, will be rebuilt.

CHICAGO, ILL.—A manufacturing plant is to be built at 64th and State Sts. for P. C. Burns, at a cost of $100,000. It is reported that the building when completed will be occupied by American Electric Telephone Co., 36 West Jackson Boulevard.

CHICAGO, ILL.—A beam mill with a monthly capacity of 12,000 to 15,000 tons of finished structural shapes is to be added to South Chicago plant of Illinois Steel Co. Cost, $1,200,000.

MILWAUKEE, WIS.—A $60,000 factory will be erected by the Enterprise Box & Lumber Co., on Canal St. Brick, two stories, 119 × 258 ft.

ST. PAUL, MINN.—The St. Paul Sash, Door & Lumber Co. will soon begin the erection of a new $100,000 factory.

JOPLIN, MO.—The A. Worth Machine Co. has been incorporated by A. Worth, A. J. Manlove and Samuel L. Worth, of Joplin.

KANSAS CITY, MO.—Brenner Bros. will erect a brick factory at 925 Wyandotte St., at a cost of $40,000.

MENA, ARK.—The National Slate Mfg. Co., capital $500,000, has been chartered here by Wm. H. Moser, C. C. Waller, A. Q. Nash and Geo. H. Steen.

PINE BLUFF, ARK.—The Arkansas & Texas Ice Co., Jeff Hicks, Pres., will erect an ice factory here of 100,000 lbs. daily capacity.

HOUSTON, TEX.—The James Taylor Lumber Co., of Houston, capital $20,000, has been chartered. Incorporators, James Taylor, Wm. Barnes and Fred. Pettengill, of Houston.

CORSICANA, TEX.—The Cleveland Tool Co., City, has been chartered, capital stock $25,000. Purpose to manufacture mining tools, etc. Incorporators, J. W. Sloan, A. D. Hamilton, H. Brashear.

TERREL, TEX.—The loss by fire which destroyed the machine and carpenter shops of Texas Midland Railroad is estimated at between $50,000 and $75,000, with no insurance.

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BEEVILLE, TEX.—S. S. Langley, of N... Haven, Conn., and W. F. Baldwin, of San Antonio, ...ll erect a ten-ton ice and refrigerating plant in this ...

SPOKANE, WASH.—The Washington Powd... Pres., J. R. Brown, Valley, Wash., has been form... for the purpose of establishing a plant near Spokane f... man-ufacture of nitroglycerine and dynamite. Po... works will be erected two miles southwest of Blue C... station.

ALBANY, ORE.—Extensive improvements w... made to plant of Albany Brewery, at cost of $... Addition will be made to the brewing plant, new ...ldings erected, machinery and fittings will be insta... nd capacity of plant greatly increased. Machinery... been ordered and contracts for work will be let a...

LEBANON, ORE.—E. G. Snyder, W. G. McC... r and H. B. Spencer will soon put up a large plani... ll and sash and door factory.

BAKERSFIELD, CAL.—The Carissa Che... Co. contemplate the erection of a refinery. Work ... begin at once. The company proposes expending fr... $75,000 to $100,000.

SEBASTOPOL, CAL.—J. W. Wilen, of Peta..., has been here with a view of establishing a tann... in the near future. Mr. Wilen's plan is to establis... joint stock company and put up a $10,000 plant.

POINT RICHMOND, CAL.—The Century ...ctrical Works of San Francisco have purchased 12 lots ...e and have plans for the erection of a large factor... for the manufacture of electrical apparatus. Cost, $25,0... William Ellis is interested.

LOS ANGELES, CAL.—The building of Pacifi... Electric Co. at 31st St. and Central Ave. has been leas... by Advance Buggy Co., of Cincinnati, O., in which w... be installed a large carriage and buggy factory.

MONTREAL, QUE.—It is stated that the Ca...da Car Co., capital $3,000,000, W. P. Coleman, Pres. ...d Gen. Mgr., has announced its intentions of erecting at once an immense plant near Montreal. It will have a capacity of 25 wooden cars, 15 steel cars and 15 passenger coaches a day. The buliding will cover 360,000 sq. ft.

MISCELLANEOUS CONTRACTS.

BOILER.—Alliance, O.—Alliance Machine Co. is reported to be in market for a 200-HP. boiler.

IMPROVEMENTS.—Vancouver, B. C.—By-law may be voted on to raise $50,000 for the improvement of English Bay.

OIL PIPE LINE.—Salinas, Cal.—Coalinga Oil Co. will ask Council for permissiou to extend its pipe line into city.

TELEPHONE SYSTEM.—Fernie, B. C.—D. V. Mott is promoting project for establishment of telephone system here.

DOCK.—Bellingham, Wash.—J. D. Leadbetter is said to be planning construction next spring of a floating dry dock, to cost about $5,000.

DRAINAGE CANAL.—Waterford, Wis.—Residents of this place and Raymond are considering digging of $15,000 drainage canal to Root River.

BOX LOCKERS.—St. Paul, Minn.—Bids are asked until Dec. 21, for furnishing and delivering 5,000 box lockers, more or less. H. B. Chamberlin, Q. M., U. S. A.

DREDGING.—Cleveland, O.—L. P. & J. A. Smith have been awarded contract for dredging upper river bed from Jefferson St. for three miles, for about $26,000.

TELEPHONE SYSTEM.—Paris, Tenn.—Local capitalists have been granted franchise for telephone system here. Underground wires will be a feature of the new system.

BONDS.—Chicago, Ill.—Trustees Sanitary District of Chicago, S. D. Griffin, Clk., Security Bldg., are calling for bids until Dec. 15 for $1,500,000 4% Sanitary District bonds.

TELEPHONE FRANCHISE.—Redondo, Cal.—Home Telephone Co. has asked telephone and telegraph franchise here, and city clerk was to receive bids for same Nov. 21.

TELEPHONE COMPANY. — Warner, O.—Caldwell-Marietta Telephone Co. has been incorporated with $25,000 capital. R. O. Wooster, A. L. Gracey and John Kaiser are interested.

HAND CARTS, ETC.—Jeffersonville, Ind.—Bids are asked until Dec. 9 for hand carts, wagon parts, sheet metals and miscellaneous supplies. J. M. Marshall, Depot Q.-M.

DREDGING.—Buffalo, N. Y.—Measure will be brought before State Legislature to appropriate $100,000 to dredge the Erie Basin at Buffalo to a depth of 22 ft. and a width of 150 ft.

DRAINAGE WORK.—Geneseo, Ill.—Green River Special Drainage District, Frank S. Haynes, Comr., will soon be ready to let contracts for several million cubic yards excavation work.

FREIGHT TERMINAL AND MARKET.—New York, N. Y.—New York Dock Co. is stated to be planning erection of freight terminal and market at Columbia and Baltic Sts., South Brooklyn.

SLIP.—New Orleans, La.—New Orleans Terminal Co., J. F. Hinckley, Ch. Engr., New Orleans, contemplates, according to reports, construction of 1,400 ft. long, 250 ft. wide slip at its terminals.

FILLING.—Sacramento, Cal.—Wm. Muir is stated to have contract for filling in China Slough. About 539,800 cu. yds. filling will be required, and this will be pumped from bed of Sacramento River.

LEVEE RECONSTRUCTION.—Dayton, O.—The city engineer has been instructed to prepare plans and estimates for reconstruction of levee on west side of Miami River, from mouth of Wolf Creek north.

DAM.—New Orleans, La.—Lake Borgne Basin Levee Board is stated to have requested Board of State Engineers to prepare plans and specifications for building dam across mouth of Lake Borgne Canal.

TELEPHONE COMPANY.—Estherville, Ia.—Emmet County Telephone Co., to which citizens of Emmet County have voted franchise, has been incorporated with $50,-000 capital. I. O. Isham is Pres. and A. J. Sanders, Secy.

DREDGING.—San Francisco, Cal.—Specifications for dredging in Napa River, Cal., are on file at office of Engineering News, 220 Broadway, New York. Bids are asked until Dec. 8, as stated in Engineering News of Nov. 17.

GRADING, ETC.—Brooklyn, N. Y.—Martin W. Littleton, Boro. Pres., has forwarded report to Board Estimate and Apportionment recommending a change of grade in the district bounded by 13th Ave., 79th St., 16th Ave. and Bath Ave., by filling up a deep valley. The cost of the filling alone, which would require dumping of 1,200,000 cu. yds. of earth, would be about $700,000.

STEEL FRAMING.—Boston, Mass.—Bids were opened by Boston Transit Commissioners Nov. 22 for furnishing 500 tons steel framing for Sec. 3 of new Washington St. subway. Boston Bridge Works, at about $24,125, being the lowest bidder.

MAIL CONVEYING SYSTEM.—Chicago, Ill.—Bids are asked by Supervising Architect, Washington, D. C., until Dec. for a mail conveying system in U. S. Postoffice, Court House, etc., building at Chicago. (Advertised, Engineering News.)

DIKE.—Kansas City, Mo.—Contract for half-mile dike to extend along north bank of Kaw River has been let to J. & N. M. Boyd Construction Co., for $20,000. Dike to be constructed of concrete, and will be riprapped on river side.

TELEGRAPH SYSTEM.—Houston, Tex.—Bids are asked by Lipper, Cy. Secy., until Dec. 12, for installation of police burglar and telegraph system to be furnished complete with 30 call and telephone boxes or stations. C. R. George is Cy. Electrician.

DRAINAGE WORK.—Taylorville, Ill.—Drainage Commission, Union District No. 1, George Spates, Comr., are asking bids until Dec. 10 for construction of open ditch requiring excavation of about 67,000 cu. yds. J. W. Dapper, Taylorville, is Engr.

TELEPHONE SYSTEM.—Santa Monica, Cal.—The Home Telegraph & Telephone Co. of Santa Monica and Ocean Park, which is now prosecuting work here, will hold a meeting of stockholders Jan. 20, to consider creating a bonded indebtedness of $150,000.

RIVER STRAIGHTENING.—Pekin, Ill.—Contract for straightening Sangamon River, from Salt Creek to the Illinois River, is stated to have been let to Pollard & Goff, Manito, Ill. The work will require about 12 miles of excavating, and will cost $125,000.

STEEL GATES.—Los Angeles, Cal.—Llewellyn Iron Works, Los Angeles, is stated to have been awarded contract for three steel gates for use in power canal of Tonto Basin dam. Bids for the latter structure are now being taken by the U. S. Geological Survey.

STEAMSHIPS.—Seattle, Wash.—Northwestern Commercial Co., J. D. Trenholme, Mgr., proposes, it is stated, to establish a new steamship line between this city and Valdez, Alaska. The plan provides for the purchase or construction of two fast 1,500-ton steamers.

RETAINING WALL.—Washington, D. C.—Contract for constructing continuation of retaining wall about reserve basin at League Island Navy Yard is stated to have been let to American Paving & Construction Co., Philadelphia, Pa., for $92,900. Bids were opened Nov. 19.

DREDGING.—Washington, D. C.—Following bids were received Nov. 21 by District Commissioners for dredging cross-cut in Anacostia River for siphon: Sanford & Brooks Co., Washington, D. C., $9,000; L. E. Smoot, Washington, D. C., $10,000; Maryland Dredging Co., Baltimore, Md., $14,000.

TUNNEL.—Boston, Mass.—Bids are asked by Boston Transit Commission, 15 Beacon St., Boston, B. Leighton Beal, Secy., until Dec. 15 for constructing Sec. 3 of the Washington St. tunnel, from near northerly side of Boylston St. to about 30 ft. north of northerly side of Hayward Pl. (Advertised, Engineering News.)

TUNNEL.—Cripple Creek, Colo.—Engineers are stated to be preparing plans and estimates for a tunnel that would cut the district about 1,500 ft. below the present tunnel level at a point 6,500 ft. above sea level. This would permit the mines on Bull Hill to be operated at a depth of about 4,000 ft.

TRAVELING CRANE.—Washington, D. C.—Bids are asked by Bureau Yards and Docks until Dec. 31 for furnishing a 40-ton electric traveling crane at Navy Yard, Puget Sound, Wash. M. T. Endicott, Ch. Bureau. Specifications are on file at office of Engineering News, 220 Broadway, New York.

OIL PIPE LINE, ETC.—Napa, Cal.—National Oil & Transportation Co. has applied to County Supervisors for franchise to construct pipe lines for transportation of oil and to erect and operate telegraph and telephone lines. Bids for sale of franchise] are being taken until Dec. 17. N. W. Collins, County Clk.

DAM AND BRIDGES.—Phoenix, Ariz.—Bids will be received at office U. S. Reclamation Service, Phoenix, until Feb. 8 for construction of masonry dam and two bridges on Salt River, about 70 miles east of this city. Dam will contain about 300,000 cu. yds. masonry. (Advertised, Engineering News.)

DRAFTING MATERIALS.—Washington, D. C.—Proposal, which includes specifications, for furnishing Isthmian Canal Commission with drafting materials is on file at office of Engineering News, 220 Broadway, New York. Bids are asked by Isthmian Canal Commission until Dec. 27, as stated in our issue of Nov. 24.

RETAINING WALL, DREDGING.—Pittsburg, Pa.—Pittsburg Terminal Warehouse & Transfer Co. has let contract to Dravo Construction Co., Pittsburg, for erection of retaining wall 400 ft. long, 37 ft. high and 17 ft. thick at base. 5,000 cu. yds. concrete will be used in its construction. Contract for 20,000 yds. of dredging to provide for a boat landing was also let to Dravo company.

SUBWAY.—Chicago, Ill.—Chicago Subway Co., capitalized at $50,000,000, and composed of men who represent 90% of the railroads entering Chicago, has been chartered in Trenton, N. J. The new company has taken over the Illinois Tunnel Co., which has built 15 miles of freight tunnels under this city. It is announced that the company has no connection with the traction systems, and is a freight enterprise only.

SHIP CANAL.—Boston, Mass.—It is stated that Representative Portus B. Hancock, Brockton, Mass., at coming session of State Legislature, will present a paper asking for the incorporation of the New York & Boston Canal & Transportation Co., with power to construct, equip, operate and maintain a ship canal between Narragansett Bay and Massachusetts Bay, by way of Taunton, Brockton and Weymouth, Fore River.

PIERS.—New York, N. Y.—It is reported that a deal has been practically closed between A. L. Jacobs, a lawyer of 34 Broad St., New York, representing a transatlantic steamship company and the Bechtel estate of Staten Island, for the acquisition of land on which the steamship company will erect docks from 800 to 1,000 ft. long. No definite information is obtainable as to what steamship company is interested.

DOCK IMPROVEMENTS.—Lorain, O.—Baltimore & Ohio R. R. is stated to have announced definite plans for improvements and additions to its dock equipment at this place. A tract of land recently purchased for $100,000 is to be improved. It is also stated that Lorain Chamber of Commerce will ask that a vote be taken on a $150,000 bond issue, to be expended for dredging and otherwise aiding in the improvement. W. Aucker, Baltimore, Md., is Supt. Floating Equipment, B. & O. R. R.

AMUSEMENT PARK.—Philadelphia, Pa.—A new amusement park, to cost between $175,000 and $200,000, is to be constructed, in which E. I. Burget, 3d and Venango Sts., Philadelphia, is interested. Proposals for outright sale, sale of part interest or concession are desired on all first-class attractions, especially scenic roads, roller coasters, old mill, shoot the chutes, circle swings, laughing gallery, merry-go-rounds, etc.

DOCK.—Duluth, Minn.—Duluth, Missabe & Northern R. R. is stated to have awarded contract for construction of extension of ore dock No. 3 of its Duluth system to the Barnett & Record Co., of Duluth and Minneapolis. The work will cost about $300,000. Contract for reconstruction and extension of ore dock No. 3 at Two Harbors is to be let soon, according to the report. H. L. Dresser, Duluth, is Ch. Engr., D., M. & N. R. R.

NEW CITY.—San Francisco, Cal.—U. S. Improvement & Investment Co., in which local parties are interested, has been incorporated with $25,000,000 capital for the purpose, it is stated, of building a model oriental city on the bay shore at South San Francisco and moving the Chinese quarters to that place and transforming the present district known as Chinatown into a resident neighborhood. One of the main objects will be to provide complete docking facilities.

DOCKS.—Baltimore, Md.—Municipal Commissioners of Finance have been considering issuance of $3,000,000 worth of new dock loan stock, to be used in building the proposed new docks and piers and in paying for property purchased by the Burnt District Commission. The Burnt District Commission, Col. Sherlock Swann, Chn., has been rapidly securing water front property, and it is reported that bids will be called soon for the erection of nine piers. B. T. Fendall is Cy. Engr.; N. H. Hutton is Ch. Engr., Harbor Board.

DRY DOCK.—New Orleans, La.—New Orleans Shipbuilding & Dry Dock Co. is reported to have let contract for a dry dock capable of raising a 5,000-ton vessel to the Thompson Dry Dock Construction Co., Perth Amboy, N. J. The dock is to be built in the lumber yards of the Lutcher & Moore Lumber Co., at Orange, Tex., and will be towed to this city when completed. It will cost about $150,000. Pearl Wight, of Woodward, Wight & Co., New Orleans, will, it is stated, be President of the New Orleans Shipbuilding & Dry Dock Co.

DRAINAGE DITCH.—Caruthersville, Mo.—Mississippi Valley Improvement Association is advocating construction of a drainage ditch 72 miles long, 40 ft. wide, and 12 to 15 ft. deep, to reclaim 1,000,000 acres of land in southeast Missouri and northeast Arkansas. The cost of the work is estimated at about $250,000. Bills are to be introduced in State legislatures of Arkansas and Missouri, and it is also hoped that U. S. Government will pay a third of the expenses. State Senator J. K. Browning, Piggott, Ark., may be interested.

PIERS.—San Francisco, Cal.—Bids were received by Harbor Commissioners Nov. 16 for constructing Piers Nos. 42 and 44, at foot of Second St. Work requires construction of two piers and shed over each, and bids were received on two proposals: (1) double-decked dock, and (2) single-decked dock. The following are the total bids received, all bidders being from San Francisco unless otherwise stated: Atlantic, Gulf & Pacific Co., 220 Market St., (1) $353,900, (2) $323,100; Healy, Tibbitts & Co., 22 Market St., (1) $329,673, (2) $300,673; City Street Improvement Co., Mills Bldg., (1) $351,121, (2) $333,360; Thomson Bridge Co., 119 Mission St., (1) $360,000, (2) $340,400; James H. McMahon, 6 California St., (1) $339,000, (2) $322,000; Robert Wakefield, 5 Market St., (1) $354,000, (2) $334,400; American, Hawaiian, E. & C. Co., Rialto Bldg., (1) $347,864, (2) $318,000; Dwyer Bros., 232 Second St., (1) $333,063, (2) $312,721; Burrell Const. Co., Central Bank Bldg., Oakland, Cal., (1) $359,000; (2) $342,000; Hyde, Haryes & Co., 5 Market St., (1) $359,900; (2) $340,720.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, Navy Department, until Dec. 13 for furnishing at Navy Yards, Portsmouth, N. H.; Boston, Mass.; Newport, R. I., and New London, Conn., a quantity of naval supplies. Among the articles desired are: Motors, steel plate fan, starting panel, rheostat, generating set, signal boxes, controlling apparatus for Westinghouse rotary converters, cycle changer, ebonite, mica, Sampson cells, Weston ground detector, field coils, signal cable, magnet wire, arc lamps, etc., Noark fuse plugs, miscellaneous electric material, fire brick, red brick, tiles, fire clay, broken stone, sand, bolts, nuts, copper rivets, screws, files, buckets, steel wire, brass track locks, drills, Dudgeon expanders, Keystone hoists, chain hoists, trucks, barrows, emery wheels, miscellaneous hardware and hand tools, leather belting, lacing leather, mahogany, cypress, ash, white and yellow pine, spruce, oak knees, yellow pine ties, hoop brass, brass rod, spring brass, sheet brass, Tobin bronze, rod and sheet copper, ingot copper, hoop iron, bar iron, channel iron, plain and galvanized sheet steel, ribbed steel, bar steel, steel angles, Howe's tool steel, Jessop's tool steel, Stubb's steel, Kester's solder, Spelter, etc., wiping solder, sheet zinc, hose, gum gasket, rubber gaskets, sheet gum packing, magnesia pipe covering, asbestos cement, brass and copper pipe, iron pipe, lead pipe, steel boiler tubes, hose, couplings, pipe fittings, air cocks, valves, steam windlasses, riding stoppers, chain cables, collision mat chains, Dunn anchors, boat anchors, steam radiators, sandpaper, dynamite, platinum fuses, Anderson steam traps, Whitney planing machine, feed pumps, copper forms, parts for blower engine, Akron vitrified pipe, Stanwood treads, metal tread plates, porcelain tubes, blue print paper, installation of drainage system, and installation of lighting system in boathouse. H. T. B. Harris, Paym. Gen.

GOVERNMENT WORK.—Washington, D. C.—In his annual report General Mackenzie, Chief of Engineers of U. S. Army, states that the following amounts can be profitably spent during the next fiscal year in government improvements: Harbor of Refuge, Sandy Bay, Cape Ann, Mass., $300,000; Chelsea Creek, Mass., $100,000 under project for general improvements, and $970,000 under project for 35-ft. channel; Harbor of Refuge, Nantucket, Mass., $80,000; breakwaters at New Haven, Conn., $150,000; Sag Harbor, L. I., $58,000; East River and Hell Gate, New York, $250,000; Harlem River, N. Y., $200,000; Hudson River, N. Y., $250,000; New York Harbor, $75,000 under general improvement, and $500,000 for Ambrose Channel; Bay Ridge and Red Hook channels, $251,000; Passaic River, N. J., $95,000; channel between Staten Island and New Jersey, $110,000; Raritan Bay, N. J., $50,000; Shoal Harbor and Compton Creek, N. J., $69,000; improvement of Delaware River, N. J., and Pennsylvania, $500,000; inland waterway from Chincoteague Bay, Va., to Delaware Bay, at or near Lewes, Del., $60,000; Potomac River at Washington, $200,000; Anacostia River, District of Columbia, $200,000; James River, Va., $175,000; Cape Fear River above Wilmington, N. C., $200,000, and at and below Wilmington, $150,000; harbor at Sabine Pass, Texas, $300,000; Galveston Harbor, Texas, $450,000; Mississippi River, between Ohio and Missouri Rivers, $650,000; Mississippi River, between Missouri River and St. Paul, Minn., $400,000; reservoirs at headwaters of Mississippi River, and Mississippi River between Brainerd and Grand Rapids, Minn., $200,000; Ohio River, $400,000; Lock and Dam No. 37, Ohio River, $150,000; construction of locks and dams Nos. 2 to 7, inclusive, Ohio River, in Pennsylvania, $1,500,000; dam No. 8, $200,000; Dam No. 11, $200,000; Dams Nos. 13 and 18, $593,400; Dam No. 19, $300,000; harbor at Duluth, Minn., and Superior, Wis., $520,000; Chicago harbor, $295,000; St. Mary's River at the Falls, Mich., $964,000; Detroit River, Mich., $450,000; Cleveland harbor, $700,000; Columbia and Lower Willamette Rivers, below Portland, Ore., $450,000; mouth of Columbia River, $776,000; highway bridge across Potomac River, $200,000; improvement of Yellowstone National Park, $168,000; road into Mount Rainier National Park, $100,000.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

MINING NOTES.

SMELTER.—Kingman, Ariz.—L. D. Goodshall and associates of Denver, Colo., are considering the installation of a smelter at Kingman.

REDUCTION PLANT.—Weiser, Idaho.—Werdenhoff Mining Co., F. W. Hunt, Gen. Mgr., will erect a reduction plant next spring, according to reports.

TRAMWAY, CONCENTRATOR.—Bingham, Utah.—Bingham Tunnel Co. intends to construct an aerial tramway, and at its terminus it is proposed to construct a concentrator.

CONCENTRATOR, ETC.—Helena, Mont.—Necessary funds are stated to have been secured for equipping Bullion Mine with concentrator and sampling plant, to cost about $200,000. M. L. Hewitt may be interested.

ORE SAMPLER.—Reno, Nev.—The company owning the new sampler at Moundhouse, 30 miles south of Reno, Nev., of which W. O. Mason is Gen. Mgr., intends to erect a sampler at other points along the C. & C. Ry.

QUARTZ MILL.—Redding Cal.—Local advices state that F. N. Cushman and Dr. H. P. Palmer have located a water location and mill site at the mouth of Horton's Gulch, in the Dog Creek mining district, and that a quartz mill is to be erected.

STAMP MILL.—Los Angeles, Cal.—The Red Raven Gold Mining Co., of Los Angeles, contemplates erection of a 20-stamp mill in the Uncle Sam group claims in El Dorado County, Cal. Estimated cost, $25,000. J. C. Newton, South Pasadena, is Pres.

SMELTER, RAILROAD.—Stockton, Cal.—Stockholders of Big Trees Mining Co., Giles Otis Pearce, Gen. Mgr., are reported to have authorized $1,000,000 bond issue to secure funds for construction of 200-ton smelting plant at Murphys, Cal., and for construction of 11-mile railroad from Angels Camp or from Valley Springs, via San Andreas.

NEW COMPANIES.—New York, N. Y.—Pioneer Consolidated Gold Dredging Co. has been incorporated at Butte, Mont., with $500,000 capital. D. J. Hennessy, Butte; C. E. Jackson, Oakland, Cal., and E. A. Frefethen, Sausalito, Cal., are interested.——Goldfield Simmerone Mining Co., incorporated with $500,000 capital stock, and headquarters at Butte, Mont., to operate at Tonopah, Nev. M. L. McDonald, Butte, and Gurney Gordon, Tonopah, are interested.——Rocky Mountain Gold Field Mining Co. has been incorporated at Denver, Colo., with $1,000,000 capital. Wm. M. Scott and Guy H. Crawford, Denver, are interested.——Indian Hill Hydraulic Mining Co., of San Francisco, Cal., has been incorporated with $1,000,000 capital. W. E. Van Johannsen, San Francisco, and G. V. Pattison, Guthrie, Okla., are interested.——Sunset Mining Co., of Rewey, Ia., has been incorporated with $24,000 capital by Calvert Spensley, O. C. Rewey, and others.

U. S. POSSESSIONS AND CUBA.

WHARF.—Hawaii.—Superintendent of Public Works has recommended that appropriations be asked at next session of the legislature for building a second wharf at Honolulu.

BREAKWATER.—Hawaii.—Advices from Honolulu state that W. H. Lambert has submitted to the Hilo Board of Trade an estimate with the specifications for a breakwater in Hilo. The cost is fixed at less than $1,000,000; top will have a width of 100 ft., which may be utilized for wharves.

SUGAR REFINERIES.—Hawaii.—The Honolulu Plantation Co. contemplates the erection of several large sugar refineries on the island of Hawaii. Several large San Francisco wholesalers are said to be interested, among them being mentioned Tillman & Bendal and M. Ehrman & Co. The presidet of the company, J. A. Black, is now in this country looking over the ground.

CATALOGUES, ETC.—Cuba.—La Liga Industrial y Agricola, a society formed for the advancement of industry, agriculture and commerce of this country, is endeavoring to establish a technical library and permanent exhibition of manufactured products, and desires trade literature, announcements and samples or models. A. Codezo-Vinageras, C. E., P. O. Box 68, Santa Clara, Cuba, is Secy.

MEXICO.

RAILWAYS.

CANANEA, SONORA.—W. R. Curry and A. Mangold are the engineers in charge of the surveys for the location of the proposed extensions to be made by Col. W. C. Greene, who has recently purchased the Sierra Madre Ry., in the state of Sonora. Mr. Curry is at work on the lines for the extensions into the mountains, and Mr. Mangold is surveying the line from Guzman to Cananea. Col. Greene states that the construction of the road between San Jose and the Sierra Madre line will be commenced as soon as material is on hand, and be prosecuted as rapidly as possible. Various branch lines and extensions are proposed by Col. Greene, who may be addressed at Cananea, Sonora. It is also stated that Col. Greene has applied for a concession to extend the Sierra Madre Ry. from its present terminus to the port of Agiabampo (a port on the Gulf of California).

CHIHUAHUA.—Henry Ginther, of El Paso, Tex., is considering the construction of a railroad from the Hercules iron mines, in Chihuahua, to Jiminez, a distance of about 100 miles. If this is not done he may haul ore in wagons by steam traction engines.

CHIHUAHUA.—Advices from this city state that W. K. Ryan, of Ryan & Dudley, railroad contractors, have made a deal for the Hidalgo zinc mine of Gibbs and White, of

Minaca. The property is 12 miles from Minaca, and it is probable that a spur track will be run from the Chihuahua & Pacific new extension up to the Calera. It is supposed that Mr. Ryan has also secured the Calera property.

CITY OF MEXICO.—The Mexican Central R. R. will require 35,000 tons of steel rails for 1905 delivery, and, it is reported, will order them from the Tennessee Coal & Iron Co.

JALISCO.—Messrs. Rosen and Winterfeldt, German financiers, accompanied by E. E. Styner, Gen. Mgr. of the Mexican Central Ry., are inspecting the lines of the company with a view to reporting to clients they represent in Germany, who are considering financing the new loan the Central is attempting to float to secure funds for the extension of the line from its present terminus in Tuxpan to Colima and Manzanillo. If the report is favorable, and the loan is made, work on this important line will, it is stated, be commenced early in the coming year.

TEPIC.—Roger Wahl, a Frenchman, has obtained a concession for the construction of a railroad from this city to Santiago Ixcuintla, with a side line to San Blas, entire distance of road being 80 miles.

STREET AND ELECTRIC RAILWAYS.

CASAS GRANDE, CHIHUAHUA.—It is stated that an American syndicate is promoting a project to construct an electric railway from Casas Grandes to the Guerrero basin, a distance of 80 miles. The survey for the proposed line is now being made. It will traverse a section of country rich in minerals, and a heavy freight tonnage of ore and other material and supplies is assured from the start. The route of the road is through a rough region of country. H. C. Dougherty, of Jesus Maria, state of Chihuahua, may be able to give information in regard to the enterprise.

CHIHUAHUA.—The 90 days' option held by S. L. Pearce, of Chihuahua, for the purchase of the street railway lines of this city and the steam railroad which runs from Chihuahua to Santa Eulalia, has expired without the transaction being made. It is stated that Mr. Pearce was unable to finance the project in the United States, but the matter may be taken up again later on.

CITY OF MEXICO.—The Federal District Tramway Co. has decided to lay a double track to the suburban town of Tlalpam. A double track line is also to be built along San Juan de Letran St. for the projected new line of Angeles and Niño Perdido, which will communicate directly with the suburban districts of the same names. This line will practically traverse the central portion of the city from north to south. The company will construct its own pavements on the lines, and if the experiment proves satisfactory will construct its own pavements on all streets traversed by its lines in the city.

CITY OF MEXICO.—Mexican Tramways Co., Ltd., W. W. Wheatley, Gen. Mgr., has secured right of way for construction of double track to the suburb of Churubusco. The material for the construction has been ordered from the United States. It is also stated that the mule car line which runs from Tacuba to Atzcapotzalco is to be immediately converted into electric traction.

LIGHT AND POWER PLANTS.

ALAMO, LOWER CALIFORNIA.—The Power & Mining Machinery Co., of New York, has closed a contract with the Alamo Electric Power & Milling Co. for three American Crossley gas engines, single cylinder construction, 20-in. diameter, 30-stroke; also for a Loomis-Pettibone gas plant. The plant is to be erected at Alamo, Lower California, and is to drive electric generators for furnishing electric power for gold mining machinery.

CANANEA.—Surveys and examinations have already been commenced for a hydro-electric power plant, which the Cananea Consolidated Copper Co., W. C. Greene, Pres., proposes to establish at the junction of the Arros and Yaqui Rivers, State of Sonora. The power is to be transmitted to Cananea, 80 miles distant. It is estimated that 30,000 HP. can be developed.

CITY OF MEXICO.—The Federal Government of Mexico has just entered into a new contract with the Mexican Light & Power Co., Ltd., for lighting the City of Mexico for a period of ten years. The new contract increases the number of arc lights to 1,200, to burn 4,000 hours annually. The annual sum to be paid by the government for the lighting is $325,777. The company is authorized under its new contract to operate its dynamos either by steam or water power.

CITY OF MEXICO.—Application has been made by D. Ituarte, representing the San Ildefonso woolen factory, for a concession to use 1,500 liters of water per second from the Tlalnepantla River, to increase the motive power which the factory employs under a concession granted in 1897 to Ernesto Pugibet, and which was acquired by the company. The factory is situated 18 kilometers from Tlalnepantla.

CITY OF MEXICO.—A concession has been granted Lic. Jones Uruela, representing Villanueva & Co., to utilize 2,000 liters of water per second of San Geronimo River, Jalisco, for motive power.

TETALA DE OCAMPO, PUEBLA.—The Tetela Mining Co. will establish an electric power plant on the Rio de la Canada, state of Puebla for the purpose of generating motive power for operating large reduction works which it will establish at Tetela de Ocampo.

BUILDINGS.

CHIHUAHUA.—Alfredo Giles, Arch., has presented to the City Council plans for the new Juarez market to be built at the junction of Calles Libertad and Juarez.

CHILPANCINGO, GUERRERO.—Department of War has ordered the construction of new barracks at Chilpancingo. Barracks for cavalry will be constructed first, and for infantry afterwards.

CITY OF MEXICO.—The plans for a new building for the department of communications, to be erected in the City of Mexico, have been definitely approved.

CITY OF MEXICO.—According to statement of Lic. Luis Aguilar, City of Mexico, plans for the new bull ring, for which he and Sr. Bringas have a concession, have now reached a definite shape and the project will now be pushed to a rapid conclusion. The site for the ring has been chosen in the Condesa colony. The structure will be in its main parts of steel and masonry.

CITY OF MEXICO.—By Jan. 1 active work will commence on the addition of two stories to the Sanz hotel, previously referred to in our columns. Plans are now being made for the improvements. H. L. Hall is proprietor. The additions will be of the most modern type. Each room will have bath attachment, and telephonic connection with the office. Upward of $250,000 is to be expended.

CUAUTLA, MORELOS.—An American company, capitalized at $200,000, is stated to be planning the construction of a hotel at Cuautla.

MISCELLANEOUS.

BRIDGE.—San Pedro Acapoaxtla, Veru Cruz.—Funds are being raised here to build a steel bridge across the Canada River.

SMELTER.—Juaynopita, Sonora.—The Juaynopita Copper Co., operating a large property near Juaynopita, Sonora, has applied for a concession to erect a smelter at a point between Juaynopita and the mouth of the Arras River.

CYANIDING PLANTS.—Sonora.—N. Leonard Holmes, of the Engineering Company of Mexico, 1 a Independencia No. 9, City of Mexico, is in the state of Sonora, where he is examining properties with a view to establishment of cyaniding plants.

OIL PLANTS.—City of Mexico.—A Pittsburg, Pa., oil company has sent an expert to Mexico to investigate the Mexican oil fields with the object of establishing plants there. One of the fields to be visited is at Elbano, near Tampico, and is the property of the Mexican Oil & Petroleum Co.

COLONIES.—Michoacan.—G. M. Taft, of Columbus, O., has returned from a trip to state of Michoacan, where a large tract has been secured 30 miles from Aquililla. It is proposed to establish there a colony of American homeseekers. The land is said to be well watered and with an abundance of fine timber.

CYANIDE PLANT, STAMP MILLS.—Monterey.—Advices from this city state that the Black Mountain Mining Co. has been organized with $2,500,000 capital by Chicago, Wisconsin and Lake Superior people to operate a large gold property in state of Sonora. It is proposed to install a cyanide plant, also 100 to 150 stamps inside of nine months.

CONCENTRATING PLANT.—Guadalajara.—The Amparo Mining Co., of Etzetlan, Jalisco, operating the Santo Domingo and adjoining mines, near Etzatlan, is considering a proposition for the erection of a concentrating and cyaniding plant to treat the low grade ore of the mines. The company proposes to spend about $50,000 in the erection of the two plants.

TELEPHONE SYSTEM.—City of Mexico.—Jose Sitzenstatter, who has obtained a concession from the Mexican government for the installation of a new telephone system in the City of Mexico, has gone to Stockholm, Sweden, to confer with L. M. Ericsson & Co., of that city, who are to finance the enterprise. The terms of the concession require that work must be commenced on the new system within six months from Nov. 1.

FOREIGN CONTRACTS—EXPORT NEWS.

ELECTRIC LIGHTING.—Egypt.—G. Beyts & Co., Suez, Egypt have been awarded contract for an electric light system for Suez.

SHIP CANAL.—Italy.—The construction of a ship canal to connect Rome and Brescia is under discussion. The cost is estimated at $12,000,000.

GAS WORKS.—England.—The Town Council of Widnes, England, has approved Gas Committee's scheme for extending the gas works at a cost of about $265,000.

RAILWAY.—Italy.—Provincial Government of Leghorn proposes to construct a railway from Leghorn to Vada via Castiglioncello. The length of the projected line is 29.7 kilometers.

ELECTRIC PLANT EXTENSION.—England.—The Lighting Committee has recommended that the Council of Cardiff apply for power to borrow $435,000 for the extensions of the electrical plant.

TRAMWAY.—Spain.—The Sociedad Hijos de Francisco Ayala y Mira has applied for a concession for a tramway in Badajoz. It is proposed to operate the first section by electricity and the second section by steam.

RAILROAD.—Russia.—It is officially announced from St. Petersburg that the Emperor has approved the plan for double-tracking the Siberian R. R., and that $5,000,000 has been assigned for beginning the work.

ELECTRIC LIGHTING.—Spain.—Tenders for the electric lighting of Salamanca for a ten-year period are being asked. Adjudication of the contract will take place at offices of Municipality of Salamanca Dec. 12.

TRAMWAY.—Persia.—It is proposed to construct a horse tramway system in Baghdad. The car bodies will be constructed in that city, but wheels, springs, etc., as well as necessary rails, will be procured abroad.

CANAL.—Chili.—Advices from Santiago de Chili state that the Chilean Government is warmly supporting Colombia's scheme to construct a canal on the Isthmus of Darien, utilizing to this end navigable rivers like the Atrato and San Juan.

WATER METER.—Australia.—Water-works department of the town of Glenelg, South Australia, has decided to adopt an American make of positive water meter, exhaustive tests having proved its superiority over the inferential meters at present in use.

ELECTRIC PLANT.—Portugal.—The municipality of Barcellos, Portugal has offered a 30-year concession for the erection of an electric light and power plant. The company must furnish the town with 160 16-c. p. incandescent lights and six 50-c. p. arc lights for $1,620 a year.

ELECTRICAL COMPANY.—Germany.—An electrical company is to be established under the auspices of the Deutsche Bank, the Bergmann Electrical Works of Berlin and Thomas A. Edison. The company is organized to utilize Mr. Edison's storage battery, and he is to be a member of the board of directors.

ELECTRIC TRAMWAY.—Spain.—Don Dionisio Sorseta Garcia has applied for a concession for the construction and working of an electric tramway between Azcoita and Zumaya (Province of Ginpuzcoa). Adjudication of tenders for the concession will take place before the Director-General of Public Works, Madrid, on Jan. 10.

RAILROAD.—German West Africa.—The route for a railroad in Togoland from Lome to Palime, near Misahoke, has been surveyed, and it is stated that it has been definitely decided to construct the road. The line will be 79 miles long and of meter gage, the capital for its construction being provided by a loan made by the German Empire to the Protectorate of $1,960,000.

RAILROAD.—Costa Rica.—Plans are being discussed by the Costa Rican Government for building a railroad from Esporta to San Domingo, to connect the line from Port Limon, on the Atlantic coast, which goes to San Jose and San Domingo, with the railroad from Punta Arenas, on the Pacific, to Esparta. The gap to be closed is a matter of about 12 miles, and will cost about $500,000.

GAS ENGINES.—England.—Bids are asked by G. L. Gomme, Clerk London County Council, County Hall, Spring Gardens, S. W., London, until 10 a. m. Dec. 6, for supply, delivery and erection complete of the main driving gas engines, together with certain auxiliary gas engines and all accessories at the Council's Falcon Brook Pumping Station to be erected in York Road, Battersea.

IRON AND STEEL.—South Africa.—The only tender received by the Railway of Commissioners of New South Wales for furnishing about 50,000 tons of iron and steel for railways and tramways was from W. Sandford, Lithgow, New South Wales. The metal is to be manufactured in the state, and it is said that if Mr. Sandford's tender is accepted he will have to expend about $1,500,000 for works.

WATER-WORKS AND SEWERS.—Costa Rica.—A contract is stated to have been entered into between Cleto Gonzales Viquez, representing the city of San Jose, and Minor C. Keith, of the United Fruit Co., representing a New York syndicate, by which the latter will install water-works and a drainage system for San Jose. By the terms of the contract bonds representing $2,000,000 gold will be issued.

FIBER SHREDDER.—Madagascar.—The U. S. Consulate at Tamatave, Madagascar (Wm. H. Hunt, Consul), has received a communication from J. W. Pyke of Andovoranto, Madagascar, who wishes to be put in correspondence with manufacturers of a machine for shredding the fiber of the rafia palm. No machines for cleaning and shredding the fiber of the aloe and piassava are in use in Madagascar.

ROPEWAYS.—Chili-Patagonia.—A concession has been granted to Señor E. J. Colombre for the erection and working of ropeways for loading and unloading vessels in the following Patagonian ports: Cabo Raso, Piramides, San Antonio, Santa Cruz, Cabo Blanco, Comodoro Rivadavia, Camarones and Gallegos. The concessionaire is also empowered to erect storehouses and to make use of the necessary lands. The concession will extend over 50 years, after which term the installations will become the property of the state.

ROLLING STOCK, ETC.—Siam.—Joseph P. Selden, U. S. Vice-Consul-General at Bangkok, Siam, reports that 37 bids were received at the opening of tenders Aug. 15 for supply of rolling stock and spare parts for the Siamese State Ry. Two American firms were among the bidders, but at the time the report was written (Aug. 25) it was thought that a Belgian company would secure the contract. In his report Mr. Selden also states that: "The management of the tender was eminently fair, the bids being opened in the presence of the local representatives of the several firms competing and there now seems to be no doubt that in the Royal railway department of Siam the open tender for the supply of railway materials is an established fact."

BATTLESHIPS, DOCKS, ETC.—Germany.—The German naval budget provides for the expenditure of $59,000,000, of which $17,317,500 is for shipbuilding. Two battleships are to be constructed, as well as one armored cruiser, two small cruisers, two gunboats, one of them for river service in the Far East, and one mine-laying steamer, and $375,000 is asked for submarine experiments. The remainder is for docks, coast defence, artillery barracks, pensions and miscellaneous expenses. Of these additions of about one-tenth to the military expenses, $3,250,000 is for the creation of reserve field artillery, being one-ninth of the $29,250,000 necessary for this purpose. The sum of $2,250,000 is appropriated as the first instalment of $20,250,000 for new rifles.

RAILWAYS, DOCKS, ETC.—Argentina.—Our correspondent in Buenos Aires sends us the following information concerning work projected in that part of South America:

Railway.—A concession has been granted C. P. Lumb & Co., of Buenos Aires, to construct and operate a railway line from Regina Station, on the Pacific Railway, to La Zanja.

Electric Plant.—The statutes of the Electric Light & Water-Works Co., of Coronel, Suarez, have been approved and tenders will shortly be invited for the supply of the necessary material.

Railway.—Congress has granted a concession to Messrs. R. Christophersen & Co., of Buenos Aires, for the right to construct and work a railway from Port San Nicolas to Bragado, passing through Arrecifes, Salto and Chacabuco.

Tramway.—Messrs. R. von Wensky & Co. have applied to the Buenos Aires municipality for a concession for a tramway to connect Barracas, Constitution, Retiro, Once de Septiembre, and Villa Santa Rita. The starting place for all the lines would be Paseo Colon and 9 de Julio.

Sanitation Works.—The works for the sanitation of the city of Tucuman, at a cost of $600,000, have been approved by the Minister of Public Works of the National Government.

Port Construction.—The law for contributing $2,000,000 gold by ten annual instalments toward the construction of the port of Sambarombo, has been promulgated. At the end of eight years from the commencement of the works the government will have the right to acquire the port at cost price, payable in National bonds at the rate of the day.

Gas Factory.—The Board of Hydraulic Works has been authorized to construct administratively in Rosario a gas factory for the luminous buoying of the River Parana. The cost is not to exceed $21,000 (National money).

Port Construction.—The Executive has approved the plans presented by Mr. Saturtnino J. Unzue of Buenos Aires, for the construction, with the alterations sanctioned, of a port at Abrigas.

Mole.—The Executive has approved the plans for a mole for ocean vessels at Baradero, the cost being estimated at $492,000. The contract with the government of the Province of Buenos Aires relative to the mole has also been approved.

MILL AND FARM MACHINERY.—Peru.—A. L. M. Gottschalk, U. S. Consul at Callao, Peru, reports that with the exception of a few American centrifugals and sugar cane elevators (the last named being devices which have earned much popularity here) all the machinery used in sugar milling in the Chiclayo District is of foreign, chiefly of English, make. With the plantation railroads foreign rails and rolling stock also prevail, English products heading the list. This is accounted for to a certain extent by the difference in freight rates between our markets and those of England on the one hand and Peru on the other, but the principal reason is probably due to the fact that American machinery, while newer in design, or more ingenious, is apt to be flimsy and light in construction and difficult to repair for the reason that after a number of years it becomes practically impossible to replace broken or worn-out parts, the manufacturers having superseded the old pattern by some newer device. American-made ox plows are in use on many of the sugar estates and steam plows of English make are in use on the larger estates. Mr. Gottschalk believes that there is room

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for improved American steam plows, not only among the rice and sugar growers in the Chiclayo District, but throughout agricultural Peru. It is also likely that American binders and reapers would have a future among the rice growers, if they were properly presented and their advantages explained. There is also a possibility for the sale of cotton gins and presses, as many rice growers in the Chiclayo District are thinking of turning their attention in part to the raising of cotton. Mr. Gottschalk reports that Vicente Maurtua, of Chiclayo, a gentleman of considerable means, has just purchased a large tract of land which he intends next year to devote entirely to cotton planting, and would undoubtedly welcome any information as to improved cotton machinery.

CONTRACT PRICES.

DREDGING.—Washington, D. C.—Bids were received by District Commissioners Nov. 21 for dredging cross-cut Anacostia River for siphon, requiring removal of 50,000 cu. yds., as follows; D. E. McComb, Supt. Sewers: Sanford & Brooks Co., Washington, D. C., 18 cts. (hydraulic dredging); L. E. Smoot, Washington, D. C., 20 cts. (dredging and removal of materials by scows); Maryland Dredging and Contracting Co., Baltimore Md., 28 cts. (dredging and removal of material by scows).

PAVING.—Atlanta, Ga.—Following bids were received by City Clerk Nov. 7 for (1) paving Mitchell St. with asphalt and (2) Madison Ave. with granite block; R. M. Clayton, Cy Engr.: (1) F. E. Antope, Marion, Ga., $2.75 per sq. yd. (awarded contract); Southern Paving & Constructing Co., Chattanooga, Tenn., $2.88 per cu. yd.; (2) W. H. Patterson, Jr., Atlanta, $2.07 per cu. yd. (awarded contract); Maher & Boggs, Atlanta, $2.07 per sq. yd.; Venable Bros., Atlanta, $2.49.

LEVEE WORK.—New Orleans, La.—Contract for levee work in St. Charles Parish, approximating 15,000 cu. yds. has been let to John S. Lanier, at 12.75 cts. per cu. yd.

LAYING WATER MAINS.—Bloomfield, N. J.—Town Council has awarded contract for laying water mains to Col. Geo. P. Olcott, East Orange, N. J., at the following figures: 4-in. pipe, 49 cts. per lin. ft.; 6-in. pipe, 65 cts. per lin. ft.

MACADAMIZING.—Somerville, N. J.—Following bids were received by Board Chosen Freeholders, Arthur P. Suithen, Clk., Nov. 22 for macadamizing Rock Hill Road; bids were received also for macadamizing Wagners Corner Road, contract for both roads being awarded to Munson & Co. for a total of $39,023.

Bids Received November 22, 1904, at Somerville, N. J. for Macadamizing Rock Hill Road.

Name and address.	Excavation. Earth, 21,112 cu. yds. Price per cu. yd.	Excavation. Rock, 1,358 cu. yds. Price per cu. yd.	Macadam, per sq. yd.	Under drains, per lin. ft.	Totals.
Munson & Co., Rockaway, N. J.	$0 25	$1 25	$0 64	$0 14	$33,340
John Walz, Easton, Pa.	0 65	0 85	1 00	1 25	64,321
Dickerson, Gill & Richards, Dover, N. J.	0 47	1 50	0 59	0 16	36,512
William Hardgrove, Somerville, N. J.	0 65	1 00	0 75	0 20	46,254
Bell Eng. & Const. Co., 220 Broadway, N. Y.	0 47 6/10	2 00	0 86 6/10	0 06	47,364
Richards and Gaston, Somerville, N. J.	0 50	1 00	0 65	0 20	39,153
Frech & Co., Flemington, N. J.	0 50	1 00	0 72	0 15	41,514

READERS' WANTS

This Department contains special requests, and detailed items, from persons in the market for supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machinery and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to furnish at once, free of cost, names and addresses of firms making the machinery or material desired, after which the item will appear in this column, **UNLESS OTHERWISE REQUESTED**, which request will be honored absolutely. The information **in all cases will be sent to our advertisers** handling the material wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving such requests with the understanding that it must not appear in the paper.

MERRY-GO-ROUNDS.—Eugene, Que.—G. C. Greene, 828 High St., is in the market for the above.

TRADE PUBLICATIONS.—Pine Bluff, Ark.—J. P. Harper, Cy. Engr., desires catalogues for a library of trade publications which he is completing.

DUMP SCOWS.—Richmond, Va.—W. E. Cutshaw, Cy. Engr., is in the market for one or two dump scows, in first-class condition, of 80 or 100 cu. yds. capacity. Must be accessible to Richmond.

SAND-LIME BRICK.—East St. Louis, Ill.—E. G. Helm, Cy. Engr., writes us that he desires information concerning the manufacture of sand-lime brick, appliances, etc., with a view of constructing a plant of that kind.

CARS, RELAYERS, LOCOMOTIVE.—New York.—The Apex Equipment Co., 11 Broadway, writes us that it is in the market for 12-15 standard gage logging cars, 3-5 miles of 35-lb. relayers and one 18-20-ton connected locomotive.

IRON AND STEEL CASTINGS, IRON AND STEEL.—Cincinnati, O.—B. F. Thomas, Engr., 415 Custom House, informs us that he is in the market for 870,000 lbs. of cast iron, 2,100,000 lbs. of mottled iron and steel and 136,000 lbs. of steel castings for dam No. 37, Ohio River.

BRICK-MAKING MACHINERY.—Ancon Hill, Canal Zone.—F. W. Ames, Jr., Pharmacist, Ancon Hospital, writes for the names of firms "manufacturing machinery for making bricks, especially the concern making the tubular wire cutter brick machine." He desires the price of a machine of 50,000 bricks per day capacity delivered to New York City.

BLUE PRINT TRACING TABLE.—Sydney, Cape Breton, Can.—Alex Theuerkauf, Ch. Draftsman, Dominion Iron & Steel Co., desires to communicate with firms manufacturing a special table having a glass top, upon which the blue print and tracing cloth are secured, the table receiving electrical illumination from below—the light shining through the glass and showing up, to a better advantage, the lines of the print.

CATALOGUES, ETC.—Santa Clara, Cuba.—La Liga Industrial Y Agricola, a society formed for the advancement of industry, agriculture and commerce of this country is endeavoring to establish a technical library and permanent exhibition of manufactured products and desires trade literature, announcements and samples or models. A. Codezo-Vinageras, C. E., P. O. Box 68, Santa Clara, Cuba, is Secy.

ENGINEERING MATERIAL PRICES.

These prices will appear in the first or second issue of each month.

TRACK FASTENINGS—
Chicago—at mill—Steel splice or angle bars, 1.30 to 1.35 cts.; spikes, 1.65 to 1.70 cts.; bolts, square nuts, 2.25 to 2.30 cts.; hexagon nuts, 2.40 cts.

RAILS, STEEL—
New York—at mill—New standard sections, $28; light rails $20 50 to $21 at mill; old iron, f. o. b. New York, $18 to $19, old steel, f. o. b., rerolling lengths, $14 50 to $15, old steel, short pieces, $13 to $13.50, relayers, $18 to $19.
Chicago—at mills—New, $28, standard sections; light rails, $22 to $24; old iron, $21.50 to $22.50; old steel, 4 ft. and over, $16 to $16.50; old steel, less than 4 ft., $15 to $15.50; heavy relayers, $22 to $22.50, heavy relayers for side tracks, $10 to $20.50.
Pittsburg—at mill—Standard sections, $28.

STRUCTURAL MATERIALS—
New York—at tidewater—Beams, channels, angles and zees, 1.54½ to 1.80 cts.; tees, 1.59½ to 1.80 cts.; bulb, angles and deck beams, 1.64½ to 1.85 cts.
Chicago—I-Beams and channels, 3 to 15-in., inclusive, and angles 3 to 6-in., ¼-in. and heavier, 1.56½ cts. Store prices, angles, beams, channels and zees, 1.80 to 1.90 cts.; tees, 1.85 to 1.95 cts.
Pittsburg—Beams and channels, up to 15-in., 1.40 cts.; over 15-in., 1.50 cts.; angles, 3 × 2 × ¼-in. thick up to 6 × 6-in., 1.40 cts.; angles, 8 × 8 and 7 × 3½ ins., 1.50 cts.; zees, 3-in. and larger, 1.40 cts.; tees, 3-in. and larger, 1.45 cts.

PLATES AND SHEETS—
New York—at tidewater—Sheared plates, carload lots, tank, 1.54½ to 1.65 cts.; flange, 1.64½ to 1.80 cts.; marine, 1.74½ to 1.90 cts.; fire box, 1.74½ to 2.50 cts.
Pittsburg—Tank, ¼-in. thick 6¼ to 24-in. wide, 1.30 cts. at mill, Pittsburg; flange and boiler steel, 1.40 cts.; marine and ordinary fire box, 1.50 cts., at mill, Pittsburg; locomotive fire box, 1.80 cts.

MERCHANT STEEL—
Chicago—Machinery, smooth finished, 1.71½ to 1.76½ cts.; tire, smooth finished, 1.66¼ to 1.71½ cts.; open hearth spring, 1.85 to 1.90 cts.; crucible tool, 6½ to 8 cts.; special tool, 13 cts. and up.
Pittsburg—Open hearth spring steel, 1.90 to 2 cts.; tire steel, 1.50 to 1.55 cts.; sleigh shoe, flat, 1.45 to 1.50 cts.; cutter shoes, tapered and bent, 2 cts.; smooth finished machinery steel, 1.50 cts.; toe calk steel, 1.85 to 1.90 cts.

IRON—
Pig Iron:
New York—at tidewater—No. 2 X Foundry, $16.50 to $16.75; No. 2 Foundry, Northern brands, $15.75 to $16 25; No. 2 Foundry, Southern pig, $16.75 to $17.
Chicago—f. o. b., Chicago—Lake Superior Charcoal, $16.75 to $17; Northern Coke Foundry, No. 1, $16 50 to $16.75; Northern Coke Foundry, No. 2, $16 to $16.25; Northern Coke Foundry, No. 3, $15.50 to $15.75; Northern Scotch, No. 1, $17 to $17.25; Ohio Strong Softeners, No. 1, $17.80 to $18.30; Ohio Strong Softeners, No. 2, $17 30 to $17.80; Southern Silvery, 4 to 6% silicon, $18.15 to $19.15; Southern Coke, No. 1, $17.65; Southern Coke, No. 2, $17.15; Southern Coke, No. 3, $16.65; Southern Coke, No. 4, $16.40; Southern Coke, No. 1, Soft, $17.65; Southern Coke, No. 2, Soft, $17.15; Southern Gray Forge, $16.15; Southern Mottled and White, $15.90; Malleable Bessemer, $16 to $16.50; Jackson County and Kentucky Silvery, 6 to 8% silicon, $19.30 to $20.30; Jackson County and Kentucky Silvery, 10% silicon, $21.30; Alabama Basic, $17.15; Virginia Basic, $16.40 to $16.65.
Pittsburg—Bessemer at Valley furnace, $14.50 to $15; Foundry iron, Northern No. 2, $15, at furnace; Northern forge, $14.10 to $14.35 at Pittsburg, $13.25 to $13.50 at Valley furnace.

Cast-Iron Pipe:
New York—Carload lots, gross tons, 6 to 10 ins., at tidewater, $26.
Chicago—4-in. water pipe, $27.50; 6-in. and heavier, $26.50 with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—
Asphaltum:
Ventura and other California asphalts, $21 per ton at New York; Trinidad refined, $25 per ton; Venezuela asphalt, $26 to $27 per ton.
Cement:
Rosendale, in wood, $1; Portland, domestic, $1.70 to $1.80; Foreign brands, $2.25 to $2.50.
Copper:
Lake, $14.87½ to 15.12½ cts.; electrolytic, 14.75 to 15 cts.; casting, 14.50 to 14.75 cts.
Lead.
New York, spot, 4.60 to 4.70 cts.
Spelter:
New York, spot, 5.75 to 5.87½ cts.
Tin:
New York, spot, 29.90 to 30.15 cts.

LUMBER—
New York, wholesale prices:
Piling—Spruce, ordinary cargoes, 5 to 6 cts.; oak, 14-in. butt, 40 to 50 ft., 19 cts.; 50 to 55 ft., 22 cts.; 55 to 60 ft., 23 cts.; 60 ft and up, 25 cts.; pine, 60 to 65 ft, $8.50; 65 to 70 ft., $9.50; 70 to 75 ft., $10.50; 80 ft. and up, $16.
Railroad ties—Yellow pine, 6 × 9 ins. × 8 ft., 58 to 60 cts.; 6 × 8 ins. × 8 ft., 53 to 55 cts.; 7 × 9 ins. × 8 ft., 62 to 64 cts.; 7 × 8 ins. × 8½ ft., 57 to 59 cts.; 7 × 9 ins. × 8½ ft., 64 to 66 cts.

INDUSTRIAL NOTES.

OUR READERS are requested to send short notes regarding new contracts that they are about to award, or have secured, for our news columns. Changes in firms' names and addresses are also wanted. "Write-ups" will not be inserted under any circumstances, as notes must contain news of interest to our readers. If our readers are in the market for any kind of machinery, tools, etc., we shall be glad to send them names of responsible firms making what they want.

THE POWER SPECIALTY CO., 126 Liberty St., New York City, manufacturer of the Foster Superheater, has recently closed the following contracts for superheaters: Chicago & Western Indiana Railroad, totaling 1,800 HP.; Cincinnati Water-Works, 1,600 HP.; Hammond Glue Co., Chicago, 50 HP.; West Coast Co., Chicago, 100 HP.; Chicago City Electric Light Plant, 1,200 HP; Baltimore Copper Smelting & Rolling Co., 680 HP.; Chihuahua & Pacific Railway, 100 HP.; Tennessee Copper Co., 1,000 HP.; Dominion Bridge Co., Montreal, 750 HP.. In addition it closed a contract for installing five separately fired superheaters for Armour & Co., Chicago.

W. L. MACATER & SONS, Houston, Tex., representatives of the Alpha Portland Cement Co., Alpha, N. J., announce that the company has been awarded a contract for furnishing 114,000 bags of Alpha cement for use of J. M. O'Rourke & Co., who are to construct about one mile of sea wall extension for U. S. Government in front of the fortifications at Galveston. This cement, 10,830,000 lbs., which would lay a 4-ft. sidewalk 67 miles long, would make 450 carloads of 24,000 lbs. each, or over 22 trainloads of 20 cars each, the total length of which, including 22 engines, tenders and cabooses, closely coupled together, would be over 3½ miles.

THE GARRY IRON & STEEL CO., Cleveland, O., informs us that it has recently closed a contract with the Lee Paper Co., of Vicksburg, Mich., for furnishing and applying about 1,000 sq. yds. of Trinidad pitch lake asphalt roofing. An order has been received from the Kansas City Southern Railway Co. for a 3,000-lb. revolving pneumatic crane, mounted on a car, with six 1-ton buckets, a 5,000-lb. revolving electric locomotive crane for the Great Northern Railway Co., a 15-ton hand power pillar crane for the Chicago, Rock Island & Pacific Ry. Co. and one 6-ton hand power overhead traveling crane for the Alamo Mfg. Co., of Hillsdale, Mich. The company is now working on several structural steel contracts, including a boiler and engine house for the Horse Shoe Forestry Co., of Horse Shoe, N. Y.; a large glass plant for The Baldwin-Travis Co., at Kane, Pa.; structural steel-work and roofing for the Ohio Retarder Co., at Port Clinton, and a number of steel buildings for The Scranton Coal Co., of Scranton.

THE NEW YORK CONTINENTAL JEWELL FILTRATION CO., New York, states that the following sales were recently made: For apartment houses, residences, office buildings etc., etc.: German Club, 112 W. 59th St., New York City, 2 filters; Mr. J. S. Halle, 32 W. 54th St., New York City, 2; Mr. J. Henry Dick, 20 E. 53d St., New York City, 1; Mr. Henry Steinhardt, 140 W. 70th St., New York City, 1; Mr. Max D. Steure, 129 W. 121st St., New York City, 1; Mrs. W. P. Douglas, 4 E. 46th St., New York City, 2; Mrs. Henry K. Sheldon, 220 Columbia Heights, Brooklyn, N. Y., 1; Dr. Wm. B. Van Lenned, 1421 Spruce St., Philadelphia, Pa., 1; Mrs. Bloomfield McIlvaine, 1512 Walnut St., Philadelphia, Pa., 1; Mr. E. T. Dobbins, 1808 Rittenhouse Sq., Philadelphia, Pa., 1; Mrs. Hopkins, 1908 Rittenhouse Sq., Philadelphia, Pa., 1; Mr. Max Livingston, 458 S. Broad St., Philadelphia, Pa., 1; Dr. Henry W. Stelwagon, 1634 Spruce St., Philadelphia, Pa., 1; Municipal Water-Works, Norwich, N. Y., 2,000,000 gallons capacity, 4. Bottlers, breweries, etc., etc.: Carstairs, McCall & Co., 222 S. Front St., Philadelphia, Pa., 1. Laundries: Mr. Chas. A. Shedaker, 204 Chancellor St., Philadelphia, Pa., 1; Scott's Nonpariel Laundry, Springfield, Mass., 1; Miss M. R. Mullan, 1134 Connecticut Ave., Washington, D. C., 1. Textile mills, dye houses, etc., etc.: Mr. Karl Schlatter, Dye Works, Philadelphia, Pa., 1; Philadelphia Mercerizing Co., Philadelphia, Pa., 1. Miscellaneous users: Guggenheimer & Co., Lynchburg, Va. (dry goods), 1; Hodge Bros., Mt. Vernon, N. Y. (Plumbers), 2; Butler Bros., Jersey City, N. J., 1; Elbridge T. Gerry, New York, N. Y. (steam yacht Electra), 1.

THE VIRGINIA BRIDGE & IRON CO., Roanoke, Va., has just closed a deal for the purchase of the works of the Carolina Steel Bridge & Construction Co., located at Burlington, N. C., between Greensboro and Raleigh, on the Southern Railway. The Burlington works have only been in operation about a year. It is said the works are well equipped with modern machinery, operated entirely by electrical power, and have a capacity of about 10,000 to 12,000 tons a year. This will give the Virginia Bridge Co. a combined capacity of 25,000 to 30,000 tons of manufactured product per annum. The price paid for the North Carolina concern was about $200,000. The business of the bridge company has been growing rapidly for several years, and the company now has a much larger capacity than similar works in the south combined, and with works located on the two largest railroad systems in the south, the Norfolk & Western and the Southern.

The capital of the company has been increased to $500,000, and it is stated that it has all been subscribed by the present stockholders. It has branch offices established at Charlotte, N. C.; Atlanta, Ga.; Birmingham Ala.; Memphis, Tenn., and Cincinnati, O.

The general offices of the company will be continued at Roanoke, and contracts have been made for an addition to its office building (which was only completed about a year ago), to provide for the additional organization. A number of draftsmen and office men have already been transferred from Burlington, and the company has been compelled to reoccupy the old office building temporarily until the present offices are enlarged. It is understood that the business management will continue in charge of C. E. Michael, Pres., who has been connected with the company for about ten years. The other officers are: T. T. Fishburne, Vice-Pres. and Treas., and J. L. Richey, Secy. Mr. J. D. Hooper is superintendent of the shops. Mr. J. H. Whitner is the contracting manager, and Mr. W. H. Clare chief engineer. The works have been running steady without a day's intermission for many years, and notwithstanding improvements and enlargements have been made from time to time, it has been necessary to do much night work to meet its contracts. While most of the companies throughout the country have found it necessary during the past year to curtail hours of work and wages, the bridge company here has done neither, although it has manufactured work on very close margins.

The company is managed by a number of popular and energetic young men, who are interested in the progress of the city and the south, and at the same time in the progress and profit of their own company.

SEWERAGE SYSTEM.

ADVERTISEMENT OF SECTIONS 4, 5, 6, AND 7.

West Orange, N. J.

Sealed proposals for building Sections Four (4), Five (5), Six (6) and Seven (7) of the sewerage system for the Town of West Orange, N. J., in accordance with the contract and specifications to be furnished by the Town Council, will be received at the Town Hall at 8.30 P. M. on Tuesday, December 20, 1904, and at that time and place will be publicly opened and read.

The work will be let in four sections each consisting of four (4) miles, more or less, according to the necessities and demands of the case, in each section, and constructed of eight (8) and ten (10) inch vitrified pipe with all necessary appurtenances.

The work consists of:

Section 4. 17,710 feet of 8-inch pipe sewer.
5,300 feet of 4-inch house connections.
690 branches on 8-inch pipe.
50 Manholes.
16 Flush Tanks.

Section 5. 16,930 feet of 8-inch pipe sewer.
5,080 feet of 4-inch house connections.
660 branches on 8-inch pipe.
41 Manholes.
20 Flush Tanks.

Section 6. 14,846 feet of 8-inch pipe sewer.
2,988 feet of 10-inch pipe sewer.
4,450 feet of 4-inch house connections.
1,150 branches on 8-inch pipe.
200 branches on 10-inch pipe.
41 Manholes.
16 Flush Tanks.

Section 7. 15,989 feet of 8-inch pipe sewer.
4,790 feet of 4-inch house connections.
1,030 branches on 8-inch pipe.
50 Manholes.
21 Flush Tanks.

Proposals on each section must be accompanied by a certified check for Two Thousand ($2,000) Dollars. Plans and specifications can be seen at the office of the Town Clerk and at the office of the Engineer, No. 143 Liberty Street, New York City. The right is retained to reject any and all bids.

By order of the Town Council.

W. M. BRIEN, M. D.,
Chairman.

J. McDONOUGH,
Town Clerk.

ALEXANDER POTTER,
Chief Engineer. 22-3t

HIGH DUTY PUMPING ENGINE.

Montgomery, Ala.

Sealed proposals made in duplicate for this work, endorsed with the title of the work, the name of the bidder and the date of its presentation, will be received by the City Treasurer of the City of Montgomery, Ala., at his office until 7 o'clock P. M., Monday, December 19, 1904, for furnishing a High Duty Pumping Engine, in accordance with specifications on file in the Office of the City Engineer. Each bidder must deposit with his bid a certified check upon a responsible bank, payable to the City Treasurer, for the sum of One Thousand ($1,000.00) Dollars as a guarantee of good faith.

A bond in a reliable surety company authorized to do business in the state of Alabama must be given by the successful bidder in the sum of Ten Thousand ($10,000.00) Dollars, conditioned for the prompt and faithful performance of all the terms of the contract.

The City Council reserves the right to reject any and all bids.

R. S. WILLIAMS,
22-1t City Treasurer.

DEPARTMENT OF THE INTERIOR, United States Geological Survey, Reclamation Service, Washington, D. C., November 25, 1904.—Sealed proposals will be received at the office of the United States Reclamation Service, Montrose, Colorado, until 2 o'clock P. M., December 31, 1904, for the construction of a frame building for the accommodation of the offices necessary for the use of the United States Reclamation Service in connection with the construction and maintenance of the Uncompahgre Valley Project. Specifications, form of proposal, and plans may be inspected at the office of the Chief Engineer of the U. S. Reclamation Service, Washington, D. C.; at the office of the District Engineer, U. S. Reclamation Service, Chamber of Commerce Building, Denver, Colo., and at the office of the U. S. Reclamation Service, Montrose, Colo. Each bid must be accompanied by a certified check for 5% of the amount of the bid, payable to the order of the Secretary of the Interior, as a guaranty that the bidder will, if successful, promptly execute a satisfactory contract and furnish bond in the sum of 50% of the contract price for the faithful performance of the work. It is understood that all bids are submitted subject to the sufficiency of the title to the land upon which it is proposed to erect the building. The right is reserved to reject any or all bids, to accept one part and reject the other, and to waive technical defects, as the interests of the service may require. Bidders are invited to be present. Proposals must be marked: "Proposals for the construction of Office Building, Uncompahgre Valley Project." E. A. HITCHCOCK, Secretary. 22-4t

STEEL BRIDGE.

Billings, Mont.

Notice is hereby given that sealed bids will be received at the office of the County Clerk of Yellowstone County, at Billings, Montana, until 12 o'clock noon of Jan. 11, 1905, for the construction of a steel or combination highway bridge across the Yellowstone River near Junction, Montana.

Each bidder must submit with his bids full plans and specifications of the work as he proposes to build it.

Profile of the location of the proposed bridge, with other information may be had by applying to Philip M. Gallaher, Surveyor, Billings, Mont.

All bids must be addressed to W. O. Parker, Chairman of Board of Commissioners, in care of County Clerk, and must be accompanied by certified check without conditions, payable to W. O. Parker, Chairman, for at least 5 per cent. of the amount of the bid, which check shall be forfeited to Yellowstone County in case the bidder, if bid is accepted, fails to enter into contract and furnish satisfactory bond for the faithful performance of his contract.

By order of the Board.

22-4t J. W. FISH, County Clerk.

Dated at Billings, Montana, Nov. 25, 1904.

WATER-WORKS.

Carrollton, Ga.

Sealed proposals will be received by the Board of Water Commissioners of Carrollton, Ga., at the Council Room on the 7th of December, 1904, at 4 o'clock p. m., for furnishing machinery and material for constructing a system of water-works.

The machinery and material to be furnished consists of:

2 80-HP. Boilers.
2 750,000-gal. Compound Pump.
1 1,000-gal. Centrifugal Pump and Engine.
1 Feed Water Heater.
1 90,000-gal. tank on 75' tower.
1 15' dia. × 100 foot stand pipe.
6,500' 10" pipe. }
1,500' 6" pipe. }
15,600' 6" pipe. } purchased.
4,000' 4" pipe. }
8 tons Specials. }
50 Fire hydrants.
22 Valves.

A certified check for 5% of amount of bid payable to L. C. Mandeville, Chairman, must accompany each bid.

Plans and specifications on file at office of Chairman of Commissioners, after November 25th.

The Commissioners reserve the right to reject any and all bids.

L. C. MANDEVILLE,
B. W. WELLS,
S. T. BRERREN,
Commissioners.

J. B. McCRARY, Engineer,
20-3t Senoia, Ga.

DEPARTMENT OF THE INTERIOR, United States Geological Survey, Reclamation Service, Washington, D. C., November 28, 1904.—Sealed proposals will be received at the office of the United States Reclamation Service, Phoenix, Arizona, until 9 o'clock A. M., February 8, 1905, for the construction of a masonry dam and two bridges on Salt River, about 70 miles east of Phoenix, Arizona. The dam will contain about 300,000 cubic yards of masonry. Specifications, form of proposals and plans may be inspected at the office of the Chief Engineer of the Reclamation Service, Washington, D. C., or at the office of the district engineer of the Reclamation Service, Roosevelt, Ariz. Each bid must be accompanied by a certified check for $10,000, payable to the order of the Secretary of the Interior as a guaranty that the bidder will, if successful, promptly execute a satisfactory contract and furnish bond in the sum of $100,000 for the faithful performance of the work. The right is reserved to reject any or all bids, to accept one part and reject the other, and to waive technical defects, as the interests of the service may require. Bidders are invited to be present. Proposals must be marked: "Proposal for the construction of the Roosevelt Dam, Salt River, Arizona." E. A. HITCHCOCK, Secretary. 22-3t

NOTICE TO CONTRACTORS.—Sealed bids for constructing Section 3 of the Washington Street Tunnel, from near the northerly side of Boylston street to about 30 feet north of the northerly side of Hayward place, will be received by the undersigned at 15 Beacon street, Boston, Mass., until 12 o'clock M. of Thursday, December 15, 1904. Plans can be seen and specifications and forms of contract can be obtained at 15 Beacon street, 9th floor. The right to reject any and all bids, and to award the contract as is deemed to be for the best interest of the City of Boston is reserved. By order of the Boston Transit Commission. B LEIGHTON BEAL, Secretary. 22-2t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 16th, 1904.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 21st day of December, 1904, and then opened, for the construction complete of the U. S. Post Office at Gainesville, Florida, in accordance with the drawings and specifications, copies of which may be had at this office or at the office of the postmaster at Gainesville, Florida at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 21-2t

PUMPING ENGINE, BOILERS, STOKERS, ETC.

Canton, O.

Sealed bids will be received by the Board of Public Service of the City of Canton, State of Ohio, at the office of said Board until twelve o'clock noon, December nineteenth, 1904, for furnishing the necessary labor and materials for One Vertical Triple Expansion Pumping Engine, having a capacity of twelve (12) million gallons in twenty-four (24) hours.

Sealed bids will be received at the same time and place for furnishing all the necessary labor and materials for three (3) boilers, capacity of two hundred (200) horse-power each.

Sealed bids will be received at the same time and place for furnishing all the necessary labor and material for three (3) smokeless furnaces or stokers.

Sealed bids will be received at the same time and place for furnishing all the necessary labor and materials for two (2) twenty-inch and two (2) thirty-inch hydraulic operative valves. All bids to be according to plans and specifications on file in the office of the Board of Public Service, Water-Works Department.

Each bid must contain the full name of every person or company interested in the same, and be accompanied by a bond in the sum to be specified in the blank form attached to the specifications, to the satisfaction of the Board, or a certified check on some solvent bank of the City of Canton, Ohio, as a guarantee that if the bid is accepted, a contract will be entered into and its performance properly secured. Should any bid be rejected such check will be forthwith returned to the bidder, and should any bid be accepted such check will be returned upon the proper execution and securing of the contract.

Bidders are required to use the printed forms, which will be furnished on application.

The right is reserved to reject any and all bids.

By order of the Board of Public Service.

November 15, 1904.

C. A. ZELLERS,
LOUIS B. OHLIGER, Clerk.
Supt. of Water-Works. 21-2t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 26, 1904.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 19th day of December, 1904, and then opened, for a mail conveying system in the U. S. Post Office, Court House, etc., building at Chicago, Illinois, in accordance with drawings and specification, copies of which may be had at this office or at the office of the Superintendent of the Building at Chicago, Illinois. Proposals will only be entertained from manufacturers of Conveying Machinery. JAMES KNOX TAYLOR, Supervising Architect. 22-2t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 28, 1904.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 4th day of January, 1905, and then opened, for the construction complete of the U. S. Post Office at Dekalb, Illinois, in accordance with drawings and specification, copies of which may be had at this office or at the office of the Postmaster at Dekalb, Illinois, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 22-2t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 23, 1904.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 2?th day of December, 1904, and then opened, for the construction complete of the U. S. Post Office at Selma, Alabama, in accordance with the drawings and specification, copies of which may be had at this office or the Office of the Postmaster at Selma, Alabama, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 22-2t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., November 29, 1904.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 10th day of January, 1905, and then opened, for the construction, complete, of the U. S. Post Office at Newcastle, Pennsylvania, in accordance with drawings and specifications, copies of which may be had at this office or at the office of the Postmaster at Newcastle, Pennsylvania, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 22-2t

MUNICIPAL CIVIL SERVICE COMMISSION, 61 Elm Street, City of New York, November 26, 1904.—Public notice is hereby given that open competitive examinations will be held for the following positions: Leveler, Thursday, December 22, 1904, at 10 A. M. The receipt of applications closes December 13 at 4 P. M. Chainman or Rodman, Wednesday, December 28, 1904, at 10 A. M. The receipt of applications closes December 14 at 4 P. M. For scope of examinations and further information apply to the Secretary of the Commission. BIRD S. COLER, President, R. ROSS APPLETON, ALFRED J. TALLEY, Civil Service Commissioners; HENRY BERLINGER, Secretary. 22-2t

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